HANTAREX
ELECTRONIC SYSTEMS

&

Digital Signage solutions

MULTIMEDIA TOTEM
MONITOR
VIDEOWALL

A NEW WAY TO COMMUNICATE

Digital Signage solutions

What is Digital Signage?

It is a now way to communicate to the public.

Padua, Italy - Center

Sovico (Mi), Italy - Reggiani Illuminazione S.p.A.

What is Digital Signage for?

It is to inform, entertain and promote and display content in digital format that has been designed for various contexts.

What is the multimedia content that can be displayed?

- Images
- Video clips
- Cartoons
- Textual ticker/scroll
- RSS feeds
- Live events
- Flash cartoons
- Attached Power Point, PDF, documents
- Audio play lists
- Internet sites

How?

By replacing hand bills and still signs with digital signs that are virtual and dynamic.

The products of the **Digital Signage** range open a new area of visual communication, optimizing the efficiency and quality of work in any application in any sector.

Naples, Italy - Subway

Milan Linate, Italy - E. Forlanini International Airport

Digital signage
Applications and Objectives

Monastir, Tunisia - Habib Bourguiba International Airport

Applications

Outdoor/Indoor Advertising and publicity at points of sales, shops, malls and outlets, in transportation hubs such as airports, railroad stations and subway stations and wherever the public meets and information must be shown such as fairs, stadiums, hotels, etc.

Outdoor/Indoor Signage Signs with messages about places, things and people in reception lounges, convention centers and public venues.

Outdoor/Indoor Video Infotainment Entertaining information, in public areas used as a tool for intelligent urban furnishing and a vehicle for information aimed at the proper context in cities and covered areas.

Interactive Windows & Digital In-Store TV As a new sales tool for emotional marketing that allows sensations and emotions to be expressed in order to endorse products and/or the positive perception of a place.

Corporate & Business TV As an evolutionary tool for communication companies, indoor and outdoors, to improve professional training by using web channels and broadcasts.

Moving Media Communication digital video on board mass transit vehicles.

Objectives

To promote products where they are sold to endorse sales.

Receive User Generated Content-UGC, content supplied by the user; text, images, video, sent with SMS, MMS or Web to respond to surveys, etc.

Convey various types of information services at the same time.

Capture passer bys' attention with to objective to inform and promote.

Control distribution by immediately measuring the effects of the message in terms of replies from the users, increased sales, the success of a sales campaign and customer loyalty.

Improve the quality and efficiency of the message.

DIGITAL SIGNAGE

No limits

Digital Signage Touch Screens

Abano Terme (Pd), Italy - Downtown

Digital Signage is a way to convey messages and/or promote products with a digital screen.

The content is managed electronically and can be updated or replaced remotely, very quickly and efficiently.

The flexibility of the solutions proposed allows programming to be the same for the entire venue or have different content on each individual screen.

These programs can also be interactive and allow the user/customer to choose the content and/or obtain additional information about a particular message, promotional offer or new product.

INTERACTIVE PUBLICITY

With tactile and sensorial marketing, publicity and public entertainment are now interactive.

Thanks to captivating and user-friendly digital content, uninteresting places with a lot of traffic like highways, suburban squares or rural cities can have a centralized and interesting place to distribute information by using interactive screens that are also pleasant to look at.

& TOUCH SCREENS OPTIONS

HANTAREX Touch Screen displays combine the conventional output function with touch controlled input functions. This bi-directional inteface makes the screens the easiest solutions for interactive information flow and controlling systems.

Due to their solid design the monitors are resistant to moisture and dust and thus ensuring a long lifetime even if they are used for applications with a high operational demand like public information kiosk systems.

SOLUTIONS

DIGITAL SIGNAGE

OUTDOOR & INDOOR

3

HANTAREX PRODUCTION RANGE

To respond to the need for **Digital Signage**, **HANTAREX** has developed 3 families of products:

MULTIMEDIA TOTEM
pag. 9

A large format that is interactive and multimedia
(size 46”_57”_70”_82”)

LCD MONITORS
pag.23

A medium and large format
(size 32”_42”_46”_57”_70”_82”)

VIDEOWALL MODULES
pag.43

Without borders and without size limits
(size 42” PD Seam Less
40” LCD Narrow Bezel
46” LCD Super Narrow Bezel)

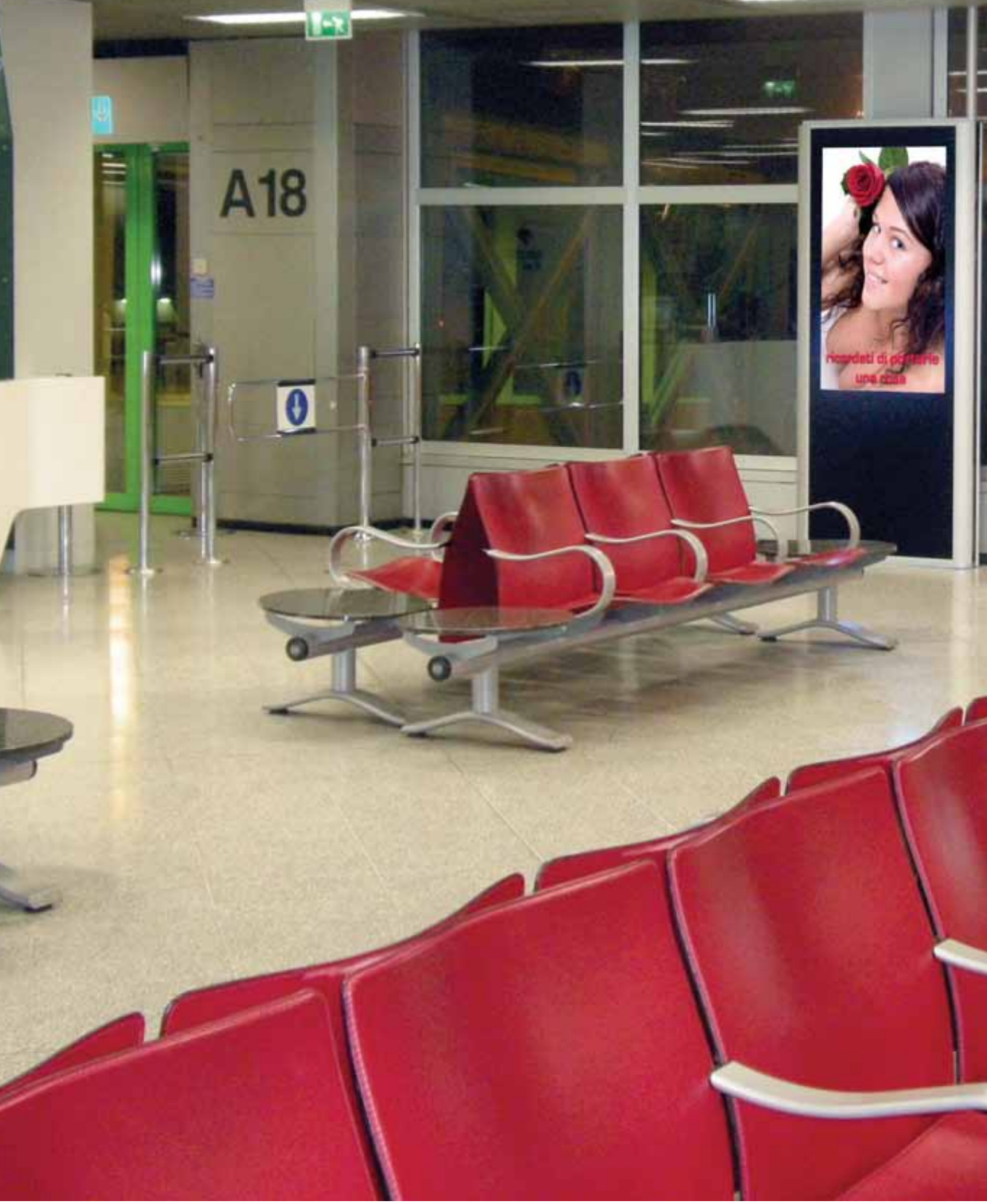
An extraordinary range of products for all your communication needs.

PADUA, ITALY - MONORAIL STATION

MANTUA, ITALY
MUNICIPAL STADIUM

NAPLES, ITALY - SUBWAY

MILAN LINATE, ITALY
E. FORLANINI INTERNATIONAL AIRPORT



Milan Linate, Italy - E. Forlanini International Airport, Area after security check

DIGITAL SIGNAGE

No limits

MULTIMEDIA
TOTEM

Padua, Italy - Downtown

MULTIMEDIA TOTEM

SIZE 46”. 57”. 70”. 82”

A NEW TOOL TO COMMUNICATE IN ALL FORMATS AND IN **PLUG AND PLAY** CONFIGURATION

MILAN LINATE, ITALY
E. FORLANINI INTERNATIONAL AIRPORT, AREA AFTER SECURITY CHECK

A new way to communicate. See, hear, touch…

An experience of interacting with a new tool that puts the user in contact with the outside world. Activate a digital interface with a simple passage to dialogue with the network by simply touching with your fingers. Use sounds, images and sensations to attract the attention of passer-bys with a single product, a **Totem**.

A **Totem** that informs, gathers comments, creates participation and allows information to be gathered, votes to be made and opinions to be expressed.

A **Totem** that prints street maps and allows ring-tones, video clips, trailers, music and anything that entertains to be downloaded.

A **Totem** that senses the presence of and recognizes passer-bys with an integrated Blue-Tooth antenna and proximity sensor.

PRODUCTION RANGE

APPLICATIONS

Advertising & Retail Marketing

Information and entertainment in public places, of high traffic and waiting areas, maps and information at fairs and special events, service information at stations and airports.

Proximity Marketing

Information directed at viewers passing near the device through integrated Blue-Tooth antenna, Wi-Fi and proximity sensors.

Digital In-Store

Promotes products: Electronic and interactive show cases, menus and specials for restaurants, programs and promotions for theaters and multiplex movie theaters including trailers, seat availability and reservations.

Digital Signs

Electronic signs to manage publicity at stadiums, malls and during exhibitions and shows.

Outdoor/Indoor infotainment

Tourist information: reception for tourist offices, hotels, restaurants, mass transit, etc., interactive maps and itineraries for tourists, historic and cultural information and event calendars.

Corporate TV & Web TV

TV and/or Web TV companies to broadcast press releases and present new products, connect various offices and/or branches for company-wide events, virtual communities with bulletin boards, multimedia blogs or company intranet.

Moving Media

Infotainment channels on board trains, busses, airplanes and ships to broadcast information and pertinent programming; travel portals and interactive kiosks with integrated automatic ticketing machines.

Abano Terme (Pd), Italy - Downtown

Abano Terme (Pd), Italy - Downtown

Outdoor Infotainment

Tourist information, interactive maps and itineraries, historic and cultural information and event calendars.

& EASY DISPLAY NETWORK

The **HANTAREX TOTEMS** have the new **'Network Neptune'**, which is a card/player that allows you to set up a "network" of monitors, called **Clients**, without connecting each screen to its own embedded PC to manage and show programmed content.

(see page 62)

OUTDOOR & INDOOR

Milan Linate, Italy - E. Forlanini International Airport, Area after security check

MULTIPLYING SPACE

With HANTAREX's Totem the publicity space can be sold to more than one client at the same time by breaking up the time a message is displayed during the day.

	A	B	C	E	F	G	H
46"	860	2150	170	500	1015	570	1000
57"	1000	2250	170	500	1248	701	1140
70"	1140	2350	170	500	1434	806	1280
82"	1320	2650	170	500	1802	1012	1320

No limits

MADESIMO interattiva
Skiing the North Shore
ANDREW SLADE
ALTA
RETE
PANNELLI
INFORMATIVI
INTERATTIVI

RETAIL ADVANTAGES

The conventional means to communicate publicity such as posters and bill boards offer companies the possibility to sell space ambiguously or at least defined. The space purchased by a client is sold by size, position and duration of the campaign.

The publicity company can sell the space to a single client for a determined period.

With **HANTAREX's Totem**, the same space can be sold to many clients at the same time by breaking up the length of time the ad is displayed. The space can be sold many times, the content changes according to a schedule that can be set as you please. The return on investment is much higher for the client that pays according to the number of people that pass, not the location and the size, and for the publicity company that can sell the same space many times without maintenance costs because the content can be uploaded to the **Totem** via remote control or wireless.

Milan Linate, Italy
E. Forlanini International Airport, Area after security check

WITH A SIMPLE PC,

A **TOTEM** CAN MANAGE

- Multimedia files
- Text, models/documents of any type
- Images
- Cartoons
- Audio play lists
- Web pages
- RSS feeds

MAIN INSTALLATIONS

- Airports, Bus Stations, Train Stations
- Ports
- Subways
- Parking lots and structures
- Retail outlets
- Malls, Sport centers and arenas
- Convention & Trade Centers
- Stadiums and theaters
- Playgrounds and amusement parks
- Military bases

Milan Linate, Italy
E. Forlanini International Airport, Area after security check

TECHNOLOGIC ADVANTAGES

With simple content management software, it is possible to schedule content as you wish, daily, weekly and at certain times, and manage the programming of each individual group of Totems.
It is also possible to personalize the content according to the different areas or for a single Totem.It is also possible to synchronize each display connected to the main headquarters in order to take full advantage of the Internet, allow automated operations to transmit content and programming and to monitor the execution and collection of information. With the simple content management software, you can set the specific times when content is transmitted.

IP54_IP65 CONFIRMITY

In order to ensure the highest possible reliability and to keep industrial quality standards, the outdoor displays are meeting all requirements of IP54 and IP65 confirmity, optionally requested.

& INCREASED APPEAL

The Totem range is able to attract attention everywhere, thanks to its captivating design and flexibility compared to traditional communication tools and signage.

Milan Linate, Italy - E. Forlanini International Airport, Area after security check
Double Face Display Totem

CUSTOM APPLICATIONS

MUNICIPALITIES AND SERVICES

- Transportation
- Hospitals
- Centralized energy
- Port authorities
- Public Parks
- Service Areas

URBAN FURNISHINGS

- Bus stop
- Information booths-News stands
- Telephone booths
- In-Store Displays
- Interactive show cases
- Outlet information

TRANSPORTATION

- Publicity in the transit zones of airports and train and subway stations

OUTDOOR SIGNAGE APPLICATIONS

- Stadiums, sport centers, golf courses, beach resorts, ski resorts, Outdoor events

HANTAREX's Totems can be customized with various integrated functions and options.
Within the Totem, it is possible to insert a PC that allows remote management of the content that can be new generation, digital, or old generation, digitalized. **Totems** are compatible with all the best know codified multimedia formats such as Graphic BMP, GIF, JPEG, PCX, PNG, TIFF, WMF/Cartoon Flash, GIF, HTML/ Sound Wav, MP3, Wma /Video MPEG 1, MPEG2, MPEG 4, AVI, DIVX, WMV, WMVHD, FLV/ Text Feed XML, atom, RSS2.0, HMTL /Streaming multicast audio and video from terrestrial and satellite networks /Podcast / multimedia Feed from blogs. The user can interact with the environment where the screen is installed. Programming can vary in real time according to the users' behavior.
Totems can also use a simple card/player (see 'Neptune/Network' card functions on page 62.), that allows the complete remote management of content and programming without an integrated PC. **Totems** can be customized also structurally and esthetically, we can design a particular solution depending on the customer's needs.
The double faced and/or air conditioned, with an integrated air conditioner, versions are already available as 'plus standard' options on the 57" model, see the photo to the side of a double faced Totem installed at Milan Linate Airport.

PADUA, ITALY - DOWNTOWN

OUTDOOR & INDOOR

MULTIMEDIA TOTEM TECHNICAL DATA

	PRODUCT NAME:	TOTEM 46" HD	TOTEM 46" High Brightness *
DISPLAY PANEL	Screen size:	46" (117 cm) diagonal	46" (117 cm) diagonal
	Aspect Ratio:	16:9	16:9
	Resolution:	1366 (H) x 768 (V) pixels	1366 (H) x 768 (V) pixels
	Pixel pitch:	0,74 (H) x 0,24 (V) [mm]	0,74 (H) x 0,74 (V) [mm]
	Useful screen:	1018 (H) x 572 (V) [mm]	1018 (H) x 572 (V) [mm]
	Brightness:	500 cd/m^2 (typical)	1500 cd/m^2 (typical)
	Contrast ratio:	1800:1 (typical)	3000:1 (typical)
	Viewing angle:	178° (in all directions)	178° (in all directions)
	Colors:	16.7 Mil	16.7 Mil
	Response time:	8 mSec	8 ms
	Front filter:	Safety antiriflective glass	Safety antiriflective glass
CONNECTIONS	Video:	1 x RCA [CVBS1, input only](With addition cable) 1 x RCA [CVBS2, input only](With addition cable) 1 x mini DIN 4 pin [Y/C, input only](With addition cable) 3 x RCA [YPbPr, input only](With addition cable)	1 x RCA [CVBS1, input only](With addition cable) 1 x RCA [CVBS2, input only](With addition cable) 1 x mini DIN 4 pin [Y/C, input only](With addition cable) 3 x RCA [YPbPr, input only](With addition cable)
	PC:	1 x Dsub-15 HD [Analog RGB, input] 1 x DVI-D [Digital RGB, input]	1 x Dsub-15 HD [Analog RGB, input] 1 x DVI-D [Digital RGB, input]
	HDMI:	1 X HDMI (with HDCP, input only)(With addition cable)	1 X HDMI (with HDCP, input only)(With addition cable)
	Audio:	2 x RCA [CVBS1 stereo input](With addition cable) 2 x RCA [CVBS2 / S.Video stereo input] (With addition cable)	2 x RCA [CVBS1 stereo input](With addition cable) 2 x RCA [CVBS2 / S.Video stereo input] (With addition cable)
	Control:	2 x RCA [Component stereo input](With addition cable) 1 x jack 3.5 mm [PC stereo input]	2 x RCA [Component stereo input](With addition cable) 1 x jack 3.5 mm [PC stereo input]
	External Control:	1 x Dsub-9 female [Input] 2 x USB Port RJ45 Port Ethernet Cable LAN CAT5	1 x Dsub-9 female [Input] 2 x USB Port RJ45 Port Ethernet Cable LAN CAT5
FEATURES	Video compatibility:	PAL (BGH/D/I, M, N, 60), NTSC (M, 4.43), SECAM HDMI [supporting CEA-861B specs. HDCP 1.1]	PAL (BGH/D/I, M, N, 60), NTSC (M, 4.43), SECAM HDMI [supporting CEA-861B specs. HDCP 1.1]
	DTV:	480i/p,576i/p,720p, 1080i / 50-60 Hz, 1080p / 60 Hz	480i/p,576i/p,720p, 1080i / 50-60 Hz, 1080p / 60 Hz
	Video signal level:	CVBS: 1 Vpp / 75 Ohm - nominal (with AGC) Y/C: 1 Vpp / 75 Ohm - nominal (with AGC) Y,Pb,Pr, 1Vpp / 75 ohm nominal	CVBS: 1 Vpp / 75 Ohm - nominal (with AGC) Y/C: 1 Vpp / 75 Ohm - nominal (with AGC) Y,Pb,Pr, 1Vpp / 75 ohm nominal
	PC compatibility:	VGA ~ WUXGA (1920x1080), NATIVE (1366x768) Automatic frequency detection	VGA ~ WUXGA (1920x1080), NATIVE (1366x768)) Automatic frequency detection
	PC signal level:	RGB: 0.7 Vpp / 75 Ohm (RGB), TTL (HV) 1 x DVI-D [Digital RGB, input only]	RGB: 0.7 Vpp / 75 Ohm (RGB), TTL (HV) 1 x DVI-D [Digital RGB, input only]
	Frequency range:	Horizontal: 20 KHz - 82 KHz Vertical: 55 Hz - 90 Hz	Horizontal: 20 KHz - 82 KHz Vertical: 55 Hz - 90 Hz
	Audio signal level:	Audio Input: 0.15 to 1 V Audio Output: 2 x 7W (10% THD)	Audio Input: 0.15 to 1 V Audio Output: 2 x 7W (10% THD)
	Speakers:	Integrated through glass speaker 10W (optional)	Integrated through glass speaker 10W (optional)
	Control interfaces:	Infrared Remote Control RS-232 Serial Port 2 x USB Port RJ45 Port Ethernet Commands and controls are available from any of the three user's interfaces	Infrared Remote Control RS-232 Serial Port 2 x USB Port RJ45 Port Ethernet Commands and controls are available from any of the three user's interfaces
CONTROLS	Video:	Preset (4 selections + user) Brightness, Contrast, Color, Sharpness Colour temperature (5 selections + user) Still frame Source selection	Preset (4 selections + user) Brightness, Contrast, Color, Sharpness Colour temperature (5 selections + user) Still frame Source selection
	Geometry:	Self adjustment of picture dimension Free adjustment of picture position Selection of format presets (for compatibility with 4:3 and 16:9 pictures) Uncompressed Mode (PC input, with selection of the dislayed area)	Self adjustment of picture dimension Free adjustment of picture position Selection of format presets (for compatibility with 4:3 and 16:9 pictures) Uncompressed Mode (PC input, with selection of the dislayed area)
	Audio:	Presets (4 selections + user) Volume, Balance Equalizer (5 bands), MTS, AVC	Presets (4 selections + user) Volume, Balance Equalizer (5 bands), MTS, AVC
	Others:	Stand-by mode Programmable OSD aspect Screensaver Timer (time, wake-up, sleep) Display address selection DPMS	Stand-by mode Programmable OSD aspect Screensaver Timer (time, wake-up, sleep) Display address selection DPMS
	Diagnostic:	Auto Input Search Fan automatic manage/cooling Ambient light control Remote control of all functions Automatic switch off in case of over-temperature Monitor Status analysis Automatic temperature control with threshold setting Shock sensor (optional)	Auto Input Search Fan automatic manage/cooling Ambient light control Remote control of all functions Automatic switch off in case of over-temperature Monitor Status analysis Automatic temperature control with threshold setting Shock sensor (optional)
	Language:	DE, ES, FR, EN, IT, PT	DE, ES, FR, EN, IT, PT
PHYSICAL	Dimensions:	refer to the size table	refer to the size table
	Weight:	80 Kg (without base)	80 Kg (without base)
	Mains voltage:	115/230 VAC ± 15%, 50/60 Hz	115/230 VAC ± 15%, 50/60 Hz
	Power consumption:	300W	400W
	Operating conditions:	Storage: -20°C to 65°C (max 85% RH not condensing) Working: 0°C to 50°C (max 85% RH not condensing)	Storage: -20°C to 65°C (max 85% RH not condensing) Working: 0°C to 50°C (max 85% RH not condensing)
	Class protection:	IP54	IP54
OPTIONALS		Touch screen through glass (contactless) Integrated Webcam Integrated WiFi Integrated GPRS/UMTS Integrated Audio Proximity sensor Digital Signage Set-top-box Self-diagnostic	Touch screen through glass (contactless) Integrated Webcam Integrated WiFi Integrated GPRS/UMTS Integrated Audio Proximity sensor Digital Signage Set-top-box Self-diagnostic

* Also available in AIR CONDITIONED version

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NEW AIR-CONDITIONED TOTEM FOR OUTDOOR INSTALLATION

Hantarex expands its totem product range by adding a climatic control systems inside of a 46" LCD Multimedia Totem - High Brightness. The Totem product range also includes now the capability to withstand even severe climatic conditions. A new mechanical structure has been designed in order to integrate a powerful and professional air-conditioning system.
The Air-Conditioned Totem works in environmental conditions from -20°C up to +50°C, offers a protection index IP65 and can operate even under direct sunlight exposure; the overall thickness, including the AC, do not exceed 29 cm.
The mechanical structure allows the user/installer, as the duel side model, to complete maintenance services in a very easy way. The double sided totem can be opened like a 'book', by means of a special engineereed solutions; after having detached the security lock, the user can easily pull the free tilting side toward himself, displaying the 'insides' to generic operations in a couple of seconds.
The solution allows an easy internal maintenance of the air-conditioner, but also display and integrated player (system integrator choice: PC based, set-top-box, CAT5+ receiver or any other solution), can be checked and verified by means of a very simple access to the structure.

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NEW DOUBLE-SIDED LCD 57" MULTIMEDIA TOTEM

Starting from the consolidated experience of the successful standard Totem product range, Hantarex has designed a brand new solution that integrates two 57" LCD displays.
Specifically designed for large venues, shopping malls, airports and in general for locations with a bi-directional viewers flow, the double-sided Totem can be positioned always in the best position to improve the overall message readability and is perfect to deliver advertising and institutional communication
The robust mechanical structure in aluminium and the safety antireflective protection glass make this product a reliable and safe solution to be installed in public areas either indoor or outdoor; the overall thickness, including the powerful air-circulation system, does not exceed 29 cm. The mechanical structure allows the user/installer to complete maintenance services in a very easy way. The double sided totem can be opened like a 'book', by means of a special engineereed solutions; after having detached the security lock, the user can easily pull the free tilting side toward himself, displaying the 'insides' to generic operations in a couple of seconds.
As usual the model will be soon available in several LCD sizes; in addition there is a complete list of optionals: through-glass touch screen, through-glass speakers, hidden spy cameras, presence sensor, shock sensor, ambient light sensor, self-diagnostic, Bluetooth, Wi-Fi, HSDPA.

PRODUCT NAME:		TOTEM 57" FullHD **	TOTEM 70" FullHD	TOTEM 82" FullHD
DISPLAY PANEL	**Screen size:**	57" (145 cm) diagonal	70" (178 cm) diagonal	82"(208 cm diagonal)
	Aspect Ratio:	16:9	16:9	16:9
	Resolution:	1920 (H) x 1080 (V) pixels	1920 (H) x 1080 (V) pixels	1920 (H) x 1080 (V) pixels
	Pixel pitch:	0,21 (H) x 0,65 (V) [mm]	0,80 (H) x 0,80 (V) [mm]	0,94 (H) x 0,94 (V) (mm)
	Useful screen:	1251 (H) x 704 (V) [mm]	1349 (H) x 871 (V) [mm]	1805 (H) x 1015 (V) [mm]
	Brightness:	600 cd/m^2 (typical)	600 cd/m^2 (typical)	600 cd/m^2 (typical)
	Contrast ratio:	2000:1 (typical)	1500:1 (typical)	2000:1 (typical)
	Viewing angle:	178° (in all directions)	178° (in all directions)	178° (in all directions)
	Colors:	16.7 Mil	16.7 Mil	16.7 Mil
	Response time:	8 ms	8 ms	8 ms
	Front filter:	Safety antiriflective glass	Safety antiriflective glass	Safety antiriflective glass
CONNECTIONS	**Video:**	1 x RCA [CVBS1, input only](With addition cable) 1 x RCA [CVBS2, input only](With addition cable) 1 x mini DIN 4 pin [Y/C, input only](With addition cable) 3 x RCA [YPbPr, input only](With addition cable)	1 x RCA [CVBS1, input only](With addition cable) 1 x RCA [CVBS2, input only](With addition cable) 1 x mini DIN 4 pin [Y/C, input only](With addition cable) 3 x RCA [YPbPr, input only](With addition cable)	1 x RCA [CVBS1, input only](With addition cable) 1 x RCA [CVBS2, input only](With addition cable) 1 x mini DIN 4 pin [Y/C, input only](With addition cable) 3 x RCA [YPbPr, input only](With addition cable)
	PC:	1 x Dsub-15 HD [Analog RGB, input] 1 x DVI-D [Digital RGB, input]	1 x Dsub-15 HD [Analog RGB, input] 1 x DVI-D [Digital RGB, input]	1 x Dsub-15 HD [Analog RGB, input] 1 x DVI-D [Digital RGB, input]
	HDMI:	1 X HDMI (with HDCP, input only)(With addition cable)	1 X HDMI (with HDCP, input only)(With addition cable)	1 X HDMI (with HDCP, input only)(With addition cable)
	Audio:	2 x RCA [CVBS1 stereo input](With addition cable) 2 x RCA [CVBS2 / S.Video stereo input] (With addition cable)	2 x RCA [CVBS1 stereo input](With addition cable) 2 x RCA [CVBS2 / S.Video stereo input] (With addition cable)	2 x RCA [CVBS1 stereo input](With addition cable) 2 x RCA [CVBS2 / S.Video stereo input] (With addition cable)
		2 x RCA [Component stereo input](With addition cable)	2 x RCA [Component stereo input](With addition cable)	2 x RCA [Component stereo input](With addition cable)
	Control:	1 x jack 3.5 mm [PC stereo input]	1 x jack 3.5 mm [PC stereo input]	1 x jack 3.5 mm [PC stereo input]
	External Control:	1 x Dsub-9 female [Input] 2 x USB Port RJ45 Port Ethernet Cable LAN CAT5	1 x Dsub-9 female [Input] 2 x USB Port RJ45 Port Ethernet Cable LAN CAT5	1 x Dsub-9 female [Input] 2 x USB Port RJ45 Port Ethernet Cable LAN CAT5
FEATURES	**Video compatibility:**	PAL (BGH/D/I, M, N, 60), NTSC (M, 4.43), SECAM HDMI [supporting CEA-861B specs. HDCP 1.1]	PAL (BGH/D/I, M, N, 60), NTSC (M, 4.43), SECAM HDMI [supporting CEA-861B specs. HDCP 1.1]	PAL (BGH/D/I, M, N, 60), NTSC (M, 4.43), SECAM HDMI [supporting CEA-861B specs. HDCP 1.1]
	DTV:	480i/p,576i/p,720p, 1080i / 50-60 Hz, 1080p / 60 Hz	480i/p,576i/p,720p, 1080i / 50-60 Hz, 1080p / 60 Hz	480i/p,576i/p,720p, 1080i / 50-60 Hz, 1080p / 60 Hz
	Video signal level:	CVBS: 1 Vpp / 75 Ohm - nominal (with AGC) Y/C: 1 Vpp / 75 Ohm - nominal (with AGC) Y,Pb,Pr, 1Vpp / 75 ohm nominal	CVBS: 1 Vpp / 75 Ohm - nominal (with AGC) Y/C: 1 Vpp / 75 Ohm - nominal (with AGC) Y,Pb,Pr, 1Vpp / 75 ohm nominal	CVBS: 1 Vpp / 75 Ohm - nominal (with AGC) Y/C: 1 Vpp / 75 Ohm - nominal (with AGC) Y,Pb,Pr, 1Vpp / 75 ohm nominal
	PC compatibility:	VGA ~ WUXGA (1920x1080), NATIVE (1920x1080) Automatic frequency detection	VGA ~ WUXGA (1920x1080), NATIVE (1920x1080) Automatic frequency detection	VGA ~ WUXGA (1920x1080), NATIVE (1920x1080) Automatic frequency detection
	PC signal level:	RGB: 0.7 Vpp / 75 Ohm (RGB), TTL (HV) 1 x DVI-D [Digital RGB, input only]	RGB: 0.7 Vpp / 75 Ohm (RGB), TTL (HV) 1 x DVI-D [Digital RGB, input only]	RGB: 0.7 Vpp / 75 Ohm (RGB), TTL (HV) 1 x DVI-D [Digital RGB, input only]
	Frequency range:	Horizontal: 20 KHz - 82 KHz Vertical: 55 Hz - 90 Hz	Horizontal: 20 KHz - 82 KHz Vertical: 55 Hz - 90 Hz	Horizontal: 20 KHz - 82 KHz Vertical: 55 Hz - 90 Hz
	Audio signal level:	Audio Input: 0.15 to 1 V Audio Output: 2 x 7W (10% THD)	Audio Input: 0.15 to 1 V Audio Output: 2 x 7W (10% THD)	Audio Input: 0.15 to 1 V Audio Output: 2 x 7W (10% THD)
	Speakers:	Integrated through glass speaker 10W (optional)	Integrated through glass speaker 10W (optional)	Integrated through glass speaker 10W (optional)
	Control interfaces:	Infrared Remote Control RS-232 Serial Port 2 x USB Port RJ45 Port Ethernet Commands and controls are available from any of the three user's interfaces	Infrared Remote Control RS-232 Serial Port 2 x USB Port RJ45 Port Ethernet Commands and controls are available from any of the three user's interfaces	Infrared Remote Control RS-232 Serial Port 2 x USB Port RJ45 Port Ethernet Commands and controls are available from any of the three user's interfaces
CONTROLS	**Video:**	Preset (4 selections + user) Brightness, Contrast, Color, Sharpness Colour temperature (5 selections + user) Still frame Source selection	Preset (4 selections + user) Brightness, Contrast, Color, Sharpness Colour temperature (5 selections + user) Still frame Source selection	Preset (4 selections + user) Brightness, Contrast, Color, Sharpness Colour temperature (5 selections + user) Still frame Source selection
	Geometry:	Self adjustment of picture dimension Free adjustment of picture position Selection of format presets (for compatibility with 4:3 and 16:9 pictures) Uncompressed Mode (PC input, with selection of the dislayed area)	Self adjustment of picture dimension Free adjustment of picture position Selection of format presets (for compatibility with 4:3 and 16:9 pictures) Uncompressed Mode (PC input, with selection of the dislayed area)	Self adjustment of picture dimension Free adjustment of picture position Selection of format presets (for compatibility with 4:3 and 16:9 pictures) Uncompressed Mode (PC input, with selection of the dislayed area)
	Audio:	Presets (4 selections + user) Volume, Balance Equalizer (5 bands), MTS, AVC	Presets (4 selections + user) Volume, Balance Equalizer (5 bands), MTS, AVC	Presets (4 selections + user) Volume, Balance Equalizer (5 bands), MTS, AVC
	Others:	Stand-by mode Programmable OSD aspect Screensaver Timer (time, wake-up, sleep) Display address selection DPMS	Stand-by mode Programmable OSD aspect Screensaver Timer (time, wake-up, sleep) Display address selection DPMS	Stand-by mode Programmable OSD aspect Screensaver Timer (time, wake-up, sleep) Display address selection DPMS
	Diagnostic:	Auto Input Search Fan automatic manage/cooling Ambient light control Remote control of all functions Automatic switch off in case of over-temperature Monitor Status analysis Automatic temperature control with threshold setting Shock sensor (optional)	Auto Input Search Fan automatic manage/cooling Ambient light control Remote control of all functions Automatic switch off in case of over-temperature Monitor Status analysis Automatic temperature control with threshold setting Shock sensor (optional)	Auto Input Search Fan automatic manage/cooling Ambient light control Remote control of all functions Automatic switch off in case of over-temperature Monitor Status analysis Automatic temperature control with threshold setting Shock sensor (optional)
	Language:	DE, ES, FR, EN, IT, PT	DE, ES, FR, EN, IT, PT	DE, ES, FR, EN, IT, PT
PHYSICAL	**Dimensions:**	refer to the size table	refer to the size table	refer to the size table
	Weight:	100 Kg (without base)	100 Kg (without base)	150 Kg (without base)
	Mains voltage:	115/230 VAC ± 15%, 50/60 Hz	115/230 VAC ± 15%, 50/60 Hz	115/230 VAC ± 15%, 50/60 Hz
	Power consumption:	500W	500W	700W
	Operating conditions:	Storage: -20°C to 65°C (max 85% RH not condensing) Working: 0°C to 50°C (max 85% RH not condensing)	Storage: -20°C to 65°C (max 85% RH not condensing) Working: 0°C to 50°C (max 85% RH not condensing)	Storage: -20°C to 65°C (max 85% RH not condensing) Working: 0°C to 50°C (max 85% RH not condensing)
	Class protection:	IP54	IP54	IP54
OPTIONALS		Integrated Webcam Integrated WiFi Integrated GPRS/UMTS Integrated Audio Proximity sensor Digital Signage Set-top-box Self-diagnostic	Integrated Webcam Integrated WiFi Integrated GPRS/UMTS Integrated Audio Proximity sensor Digital Signage Set-top-box Self-diagnostic	Integrated Webcam Integrated WiFi Integrated GPRS/UMTS Integrated Audio Proximity sensor Digital Signage Set-top-box Self-diagnostic

** Also available in DOUBLE-SIDED version

MULTIMEDIA TOTEM

CONTENTS AVAILABLE 24/7

& OPTICAL BONDING for Sunlight Proof

For installations in environments with brightest lighting conditions-even bright sunlight, HANTAREX provides special displays which are based on the *optical bonding technique*. This lead to the advantage that glare and reflection on the screens are reduced to a minimum while brightness is increased at the same time. Due to a special coating the screens are protected against UV radiation too. The optical bonding technique also improve antiscratch and antivandalism acts ruggedising the entire display surface.

PADUA, ITALY - DOWNTOWN

per distinguersi

Lisbon, Portugal -CUF Descobertas Hospital

MONITOR

SIZE 32”. 42”. 46”. 57”. 70”. 82”

CONTENTS AVAILABLE 24/7

Monastir, Tunisia - Habib Bourguiba International Airport

The **Digital Signage** range monitors open a new era of visual communications optimizing the efficiency and quality of work in any application and in any sector. Excellent image quality and large screens, **HANTAREX** monitors dedicated to **Digital Signage** are the ideal solution of applications where image quality and perfect viewing are fundamental.

Horizontal

MONITOR HORIZONTAL CONFIGURATION
LANDSCAPE MODE

32” 42” 46” 57” 70” 82”

APPLICATIONS

WHERE?

IN AIRPORTS AND STATIONS

The image sharpness and perfect readability of the text displayed on these monitors give passengers the latest information about arrivals and departures.

IN RESTAURANTS

The high definition and reliability of the various types and models of the range allow daily specials or offers to be shown easily and clearly.

IN BANKS

For high brightness and great contrast in daylight and no 'burn-in' effect after still images and/or detailed text is displayed.

IN CONFERENCE HALLS

To improve communication and presentations in meetings thanks to lively colors and vivid images.

IN RECEPTION HALLS

They allow you to present your brand and your organization to visitors with high quality images and clips.

MALLS

To offer the possibility of unlimited publicity and innumerable ways to communicate efficiently.

BARI, ITALY - PALESE INTERNATIONAL AIRPORT

BARI, ITALY - PALESE INTERNATIONAL AIRPORT

& EASY DISPLAY NETWORK

All **HANTAREX MONITORS** can have the new **'Network Neptune'** function upon request. This is a card/player that allows a "network" of monitors, called **Clients**, to be set up without a PC embedded in each single display/client for programming and content management.

(see page 62)

RETAIL COMMUNICATIONS

Exceptional image quality with Full HD of 1,920 x 1,080 pixel resolution make the communications a realistic and productive experience.

Lisbon, Portugal - Lusomundo Cinemas Múltiplex Sapo

Do you want to improve your visual communications? Get an advantage with a new tool.

Display publicity and information with **VERTICAL monitors** from **HANTAREX**. HANTAREX monitors dedicated to Digital Signage can be used also for vertical applications as a high resolution sign for airports, stations and malls.

VERTICAL

VERTICAL CONFIGURATION MONITOR
PORTRAIT MODE

APPLICATIONS FOR WHAT?

EVENTS AND SHOWS

To supply information to spectators in all the various angles to the screen keeping all of them entertained.

MEETINGS

To transmit visual messages to management. Also from a distance and in very bright light, **HANTAREX** monitors do not lose the liveliness of the colors and the sharpness of the images.

RAILROAD INFORMATION

To display all the detailed information on just one screen helping passengers find their destination with animation and visual effects. These monitors ability to display images and text clearly without blurred areas are the clear difference between them and their competitors.

DESIGNING WITH A TEAM

To share the entire design process as well as "visualize" all the details of the more components and the more sophisticated designs. With the large LCD monitors, everyone is able to see and examine the design from any angle.

LISBON, PORTUGAL - ASTON MARTIN FLAGSHIP STORE

MILAN, ITALY - MONDADORI INFORMATICA CHAIN SHOP, MALPENSA INTERNATIONAL AIRPORT

& IMAGE QUALITY

HANTAREX high resolution monitors of the **Digital Signage** range clearly display detailed information that comes from any source.

THE ADVANTAGES OF HIGH DEFINITION

One screen with a resolution of 1920 x 1080 pixels allows better viewing reducing the need to scroll.

Lisbon, Portugal - Fashion Clinic

Milan, Italy
Dior Corner Shop,
Malpensa International Airport

CUSTOM INSTALLATIONS

MUNICIPALITIES AND SERVICES

- Transportation
- Hospitals
- Centralized energy
- Port authorities
- Public Parks
- Service Areas

URBAN FURNISHINGS

- Bus stop
- Information booths-News stands
- Telephone booths
- In-Store Displays
- Interactive show cases
- Outlet information

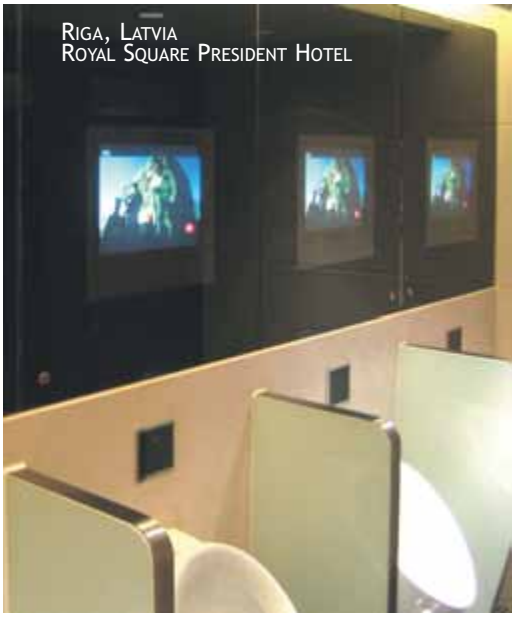
TRANSPORTATION

- Publicity in the transit zones
of airports and train and subway stations

OUTDOOR SIGNAGE APPLICATIONS

- Stadiums, sport centers,
golf courses, beach resorts,
ski resorts, Outdoor events

RIGA, LATVIA
ROYAL SQUARE PRESIDENT HOTEL



RIGA, LATVIA
ROYAL SQUARE PRESIDENT HOTEL

LCD 19" SDB HOTEL TV

For specific Luxury Contract and Customised integrated solutions, such as Hotels, Restaurants, Shops and Show Rooms, Hantarex has developed a special Hotel TV 19" LCD display, which can be completely embedded in the wall, and due to its structure (open-frame back configuration), it can be aligned to the wall layer allowing the installer to insert the display in the wall with water-proof compatibility. The display has an enlarged front crystal glass, available in black or mirrored furnishing, which can be perfectly aligned within the vertical front glass layer (as in the bathroom picture), of a designed environment.

The most important functionalities includes:

- Water-proof compatibility
- Frontal Speakers (hidden behind the glass)
- HD ready function
- HDMI connections
- Double tuner (Analogic + DVB-T Free to Air)
- Radio FM
- Hotel Mode

The 19" LCD SDB Hotel TV display is the ideal choice for those special contract embedded solutions (with special mention for bathroom locations), in which water-proof functionality is accompanied with Hotel Mode, FM Radio and cutting edge luxury design.

BROADCASTING APPLICATIONS

SIZE 32”. 42”. 46”. 57”. 70”. 82”

ATHENS, GREECE
ERT BROADCASTING TV

ATHENS, GREECE
ERT BROADCASTING TV

ATHENS, GREECE
ERT BROADCASTING TV

ATHENS, GREECE
ERT BROADCASTING TV

FULL HD RESOLUTION

HANTAREX monitors’ original resolution is 1,920 x 1,080 pixels, which means the impact is dynamic with realistic colors, clear images and perfectly readable text on a large screen. The monitors are able to receive a signal from 1,080p from the start for both the analog and digital input from a PC that is the source of HD video through a DVI (HDCP compatible) interface. The special **Front Filter** on all HANTAREX monitors dedicated to Digital Signage reduces reflection from the screen.

THE MONITORS RANGE

HANTAREX high resolution monitors are available in three versions and they are available in various models and functions. The Ranges,

- **QUADRO**
- **SQUARE**
- **OUTDOOR**

have been created to satisfy all the needs for video information applications for heavy traffic that require an integrated system of monitors with special technologic characteristics. These monitors are able to communicate with a centralized data base that manages data and information remotely, simply and directly. The monitors in this range can be integrated with a centralized system depending on the type of rapid connection systems and are an excellent compromise between quality, functionality and cost.

TECHNICAL ADVANTAGES

NO FAN AND AN INTEGRATED HEAT SENSOR

These monitors have been designed to guarantee ventilation and heat dissipation without a fan, which often makes noise and accumulates dust. When the temperature inside these monitors rises for any reason, the monitors automatically control the rear illumination system, maintaining it below the maximum operating temperature. Therefore, the monitor automatically goes to standby mode when the internal temperature is higher than the optimum operating temperature.

CABINET WITH METAL REAR AND HANDLE

These monitors are housed in a metal cabinet with a sturdy rear panel and with handles to transport the monitor.
These monitors also have mounting holes that conform to VESA specification, so the monitors can be mounted to standard wall brackets that can be bought is a shop.

DESIGNED FOR PROFESSIONAL USE

The sturdy cabinet and the well chosen components guarantee reliability even in applications that require prolonged use, for example: point of sales communications, external publicity, mass transit and security monitoring.

ANTIREFLECTION TREATMENT

The optional antireflection treatment, ample wide angle viewing, notable brightness and high contrast are factors that optimize the image quality also in very bright light.

QUADRO

QUADRO LCD Full HD, DID HD, HI-BRIGHT FHD

QUADRO LCD 32" HD
QUADRO LCD 42" Full HD
QUADRO LCD 46" HD
QUADRO LCD 46" DID HD HI-BRIGHT
QUADRO LCD 46" Full HD
QUADRO LCD 57" Full HD
QUADRO LCD 70" Full HD
QUADRO LCD 82" Full HD

This range, in various sizes and functional models, has the **QUADRO** style and is available with special functionalities in the following versions:

- **STANDARD** base version
- **RPC3** with Embedded PC (Mini ITX PC)
- **PLAYER NEPTUNE NETWORK** to manage programming and display content in the various modes
- With optional **SCREEN PROTECTION/ANTIREFLECTION**
- **TOUCH SCREEN OPTIC** version

QUADRO LCD/FULL HD RANGE

This range, in various sizes and functional models, has the **QUADRO** style and is available with in the following VERSIONS:

- **STANDARD** base version
- **RPC3** with Embedded PC (Mini ITX PC)
- **PLAYER NEPTUNE NETWORK** to manage programming and display content in the various modes
- With optional **SCREEN PROTECTION/ANTIREFLECTION**
- **TOUCH SCREEN OPTIC** version

This range has been expressly designed and re-built for particular video information installations such as airports, train stations, trade shows, museums, hotels, malls, etc. The LCD monitors in this range are one of the most significant and innovative professional solutions, because the various models can be modified, each one has the functionalities required by the situation, which changes with areas with heavy traffic or the **Digital Signage** application.

Besides the **STANDARD** version there are all the basic connections and functionalities such as the possibility to connect all the monitors in Loop-Through, the range has a special model with an **Embedded PC Rack (RPC3)**, which includes an integrated Embedded PC (Mini ITX PC), or the integration of a **NETWORK NEPTUNE card/player**.

Both models can manage programming and display content according to the various modes. The PC's characteristics can be chosen from the system integrator, configured to manage content locally and automatically display data and images.

The PC is inserted in the monitor cabinet and can be easily extracted by sliding it from the rear of the cabinet.

In case an integrated PC is not necessary, the 'NETWORK NEPTUNE' card/player allows you to manage the **Digital Signage** programming and/or content easily and remotely. Each card can have a solid SDD or a simple HDD memory.

For a complete description of the '**NETWORK NEPTUNE**' card, see page 62.

Also this range can be supplies as special model/functionality with a special **Antireflection FILTER** that eliminates any problems caused by very bright light.

Last, but not least the **QUADRO** range is also available in the special model with **Optic Touch Screen** functionality, that allows an even more interactive usability of **Digital Signage** or general info/advertising contents. **Hantarex**'s ability to give professional and personalized solutions is highlighted also in this range of products.

In fact, it is possible to personalize the configuration of the software and hardware of the PC integrated in the monitor as well as the structure and style of the monitor itself.

STRUCTURAL ADVANTAGED

The reinforced aluminum structure, engineered to guarantee the best quality and reliability, responds to the IP categories and all the parameters can be checked with a simple RS 232 interface.

Particular video information applications are also available upon request, for example: large LCD screens of 57", 70" and 82" that have a resolution of 1920x1080 pixels and extremely high contrast and brightness, not to mention the possibility to have an integrated PC as in the smaller versions.

QUADRO LCD 32" HD
QUADRO LCD 42" Full HD
QUADRO LCD 46" HD
QUADRO LCD 46" DID HI-BRIGHT
QUADRO LCD 46" Full HD
QUADRO LCD 57" Full HD
QUADRO LCD 70" Full HD
QUADRO LCD 82" Full HD

FLIGHT FROM TIME GATE NOTICE DELAY
YZ 125 P MILAN 14:35 G12 ON-TIME LANDED
AZ 256 V ROME 14:45 B23 DELAYED
AZ 115 F MILAN 14:55 A22 DELAYED

OUTDOOR

HIGHLIGHTS

Impressive picture quality: Full HD
Ideally suited for various indoor and outdoor installations as well as 24/7 applications
Extensive input & output terminals
Network integration (optional) for maintaining and controlling the monitor on the LAN

WATERPROOF

Robust Stainless Steel extra strong, sealed cabinet
Input board protection
Reinforced ventilation
Anti front-condensating system
Built in Rack PC configuration
Antireflective crystal
PC service portal
Easy Service & Maintenance, without any cabinet, removal
Optional Transreflective electronics and panel, in case of direct sunrays
Optional Built in Heaters

OUTDOOR LCD 40" HD DID
OUTDOOR LCD 42" HD TRANSFLECTIVE
COMING SOON:
OUTDOOR LCD 46" HI-BRIGHT 1.500 CD/M

OUTDOOR LCD 40" HD DID
OUTDOOR LCD 42" HD TRANSFLECTIVE
COMING SOON:
OUTDOOR LCD 46" HI-BRIGHT 1.500 CD/M

WATERPROOF OUTDOOR MONITOR

HANTAREX Outdoor range of monitors are picture-perfect even at critic temperatures of up to -20°C or in adverse weather conditions, such as rain, high degree of humidity and high presence of dust.

Advanced technology such as sunlight-readable functions, like the availability of several LCD panels types, provided of different brightness of transflective functionalities, ensure that even direct exposure to sunlight does not reduce the picture quality.

The Outdoor range is fully protected against adverse weather and location conditions and corresponds to protection class IP54 (upgradable till IP65). This ensures that these units can withstand all types of weather.

Even at temperatures as low as -20 °C, the LCD screens provide a razor-sharp HD_Full HD quality picture at all times, making them perfectly suited for all seasons.

Protection against vandalism and theft is of particular importance when it comes to installations in public places.

The Outdoor monitor are equipped with special protective front crystal, which is much stronger than normal glass used in the production of standard monitor surfaces. In addition, this glass is non-reflective and the information displayed can be read even from acute angles.

The monitor housing made from aluminium is rust, stain and the coated painting is scratch-resistant, making it exceptionally robust.

HEATERS

The optional heaters work automaticly in the following way: when the monitor is switched up in a freezing morning, the built-in electronic device does not switch the monitor ON immediately, but just the heaters.

Built in sensors constantly analyze the internal temperature and, as soon as a perfect working temperature has been reached, automatically switch the heater OFF, and the monitor ON.

In 24/7 working conditions the heaters are not required, since constant electronics' running maintains temperature above 0°.

VANDALIC proof and TAMPER proof

Double laminated front 6+4 mm protective glass
Reinforced front frame
Reinforced back cover
Sliding Rack PC, which allows: to extract/service the Rack PC itself without any cabinet removal from the installation
Special availability of panel changing or updating, without any cabinet substitution
Special availability of front protective crystal changing

FLIGHT FROM TIME GATE NOTICE DELAY
AZ 306 R ROME 14:15 G14 ON-TIME LANDED
YZ 125 P MILAN 14:35 G12 ON-TIME LANDED
YZ 201 Y NICE 14:40 A11 ON-TIME LANDED
AZ 256 V ROME 14:45 B23 DELAYED
AF 212 Z NAPLE 14:50 F24 ON-TIME
AZ 115 F MILAN 14:55 A22 DELAYED
BA 309 C LONDON 15:00 A09 ON-TIME

TECHNICAL DATA

	PRODUCT NAME:	QUADRO LCD 32" HD MON/RPC3	QUADRO LCD 42" FHD MON/RPC3
DISPLAY PANEL	**Screen size:**	32" (81 cm) diagonal	42" (107 cm) diagonal
	Aspect Ratio:	16:9	16:9
	Resolution:	1366 (H) x 768 (V) pixels	1920 (H) x 1080 (V) pixels
	Pixel pitch:	0.51 (H) x 0.51 (V) [mm]	0.16 (H) x 0.48 (V) [mm]
	Useful screen:	697 (H) x 392 (V) [mm]	930 (H) x 523 (V) [mm]
	Brightness:	450 cd/m^2 (typical)	500 cd/m^2 (typical)
	Contrast ratio:	4,000: 1 (typical)	4,000: 1 (typical)
	Viewing angle:	178° (in all directions)	178° (in all directions)
	Colors:	16.7 Mil	16.7 Mil
	Response time:	8 mSec	6,5 mSec
	Front protective filter (optional):	Temperated glass; Laminated antivandalic anti-reflective glass, light transmission > 90%	Temperated glass; Laminated antivandalic anti-reflective glass, light transmission > 90%
CONNECTIONS	**Video:**	1 x RCA [CVBS1, input only] 1 x RCA [CVBS2, input only] 1 x mini DIN 4 pin [Y/C, input only] 3 x RCA [YPbPr, input only]	1 x RCA [CVBS1, input only] 1 x RCA [CVBS2, input only] 1 x mini DIN 4 pin [Y/C, input only] 3 x RCA [YPbPr, input only]
	PC:	1 x Dsub-15 HD [Analog RGB, input]	1 x Dsub-15 HD [Analog RGB, input]
	HDMI:	1 x DVI-D [Digital RGB, input] 1 X HDMI [Audio e Video con HDCP, input only]	1 x DVI-D [Digital RGB, input] 1 X HDMI [Audio e Video con HDCP, input only]
	Audio:	2 x RCA [CVBS1 stereo input] 2 x RCA [CVBS2 / S.Video stereo input] 2 x RCA [Component stereo input] 1 x jack 3.5 mm [PC stereo input] Power stereo output, speakers [clinch]	2 x RCA [CVBS1 stereo input] 2 x RCA [CVBS2 / S.Video stereo input] 2 x RCA [Component stereo input] 1 x jack 3.5 mm [PC stereo input] Power stereo output, speakers [clinch]
	Control:	1 x Dsub-9 female [Input] Local Key Board Remote control	1 x Dsub-9 female [Input] Local Key Board Remote control
	Loopthrough unit		
	PC:	1 x Dsub-15 HD [Analog RGB, output](optional)	1 x Dsub-15 HD [Analog RGB, output](optional)
	Control:	1 x DVI-D [Digital RGB, output](optional) 1 x Dsub-9 female [output](optional)	1 x DVI-D [Digital RGB, output](optional) 1 x Dsub-9 female [output](optional)
FEATURES	**Video compatibility:**	PAL (BGH/D/I, M, N, 60), NTSC (M, 4.43), SECAM HDMI [supporting CEA-861B specs. HDCP 1.1]	PAL (BGH/D/I, M, N, 60), NTSC (M, 4.43), SECAM HDMI [supporting CEA-861B specs. HDCP 1.1]
	DTV:	480i/p,576i/p,720p, 1080i / 50-60 Hz, 1080p / 60 Hz	480i/p,576i/p,720p, 1080i / 50-60 Hz, 1080p / 60 Hz
	Video signal level:	CVBS: 1 Vpp / 75 Ohm - nominal (with AGC) Y/C: 1 Vpp / 75 Ohm - nominal (with AGC) Y,Pb,Pr, 1Vpp / 75 ohm nominal	CVBS: 1 Vpp / 75 Ohm - nominal (with AGC) Y/C: 1 Vpp / 75 Ohm - nominal (with AGC) Y,Pb,Pr, 1Vpp / 75 ohm nominal
	PC compatibility:	VGA ~ WUXGA (1920x1080), NATIVE (1366x768) Automatic frequency detection	VGA ~ WUXGA (1920x1080), NATIVE (1366x768) Automatic frequency detection
	PC signal level:	RGB: 0.7 Vpp / 75 Ohm (RGB), TTL (HV) 1 x DVI-D [Digital RGB, input only]	RGB: 0.7 Vpp / 75 Ohm (RGB), TTL (HV) 1 x DVI-D [Digital RGB, input only]
	Frequency range:	Horizontal: 20 KHz - 82 KHz Vertical: 55 Hz - 90 Hz	Horizontal: 20 KHz - 82 KHz Vertical: 55 Hz - 90 Hz
	Audio signal level:	Audio Input: 0.15 to 1 V Audio Output: 2 x 7W (10% THD)	Audio Input: 0.15 to 1 V Audio Output: 2 x 7W (10% THD)
	Speakers:	Integrated speakers, 2 x 10W (optional)	Integrated speakers, 2 x 10W (optional)
	Control interfaces:	Remote Control are OSD assisted RS-232 Serial Port Embadded splitter up to 5x5 with bezel compensation (optional)	Remote Control are OSD assisted RS-232 Serial Port Embadded splitter up to 5x5 with bezel compensation (optional)
	Loopthrough unit:	RS-232 pass-through VGA pass-through DVI pass-trough All inputs converted to DVI and retransmitted Commands and controls are available from any of the three user's interfaces	RS-232 pass-through VGA pass-through DVI pass-trough All inputs converted to DVI and retransmitted Commands and controls are available from any of the three user's interfaces
CONTROLS	**Video:**	Preset (4 selections + user) Brightness, Contrast, Color, Sharpness Colour temperature (5 selections + user) Still frame, Source selection	Preset (4 selections + user) Brightness, Contrast, Color, Sharpness Colour temperature (5 selections + user) Still frame, Source selection
	Size Video:	16:9, 14:9, 4:3, Panoramic, Zoom1, Zoom2	16:9, 14:9, 4:3, Panoramic, Zoom1, Zoom2
	Size Graphics:	16:9, 1:1, 4:3	16:9, 1:1, 4:3
	Geometry:	Self adjustment of picture dimension Free adjustment of picture position	Self adjustment of picture dimension Free adjustment of picture position
	Audio (optional):	Presets (4 selections + user) Volume, Balance, Equalizer (5 bands), Stereo / Dual1 / Dual2, AVC(AutomaticVolumeControl)	Presets (4 selections + user) Volume, Balance, Equalizer (5 bands), Stereo / Dual1 / Dual2, AVC(AutomaticVolumeControl)
	Others:	Stand-by mode Programmable OSD aspect Screensaver (blue screen, pixel shiftl , wiper, gray background) Timer (time, wake-up, sleep) Display address selection DPMS Auto Input Search	Stand-by mode Programmable OSD aspect Screensaver (blue screen, pixel shiftl , wiper, gray background) Timer (time, wake-up, sleep) Display address selection DPMS Auto Input Search
	Diagnostic:	Fan automatic manage/cooling Ambient light control Remote control of all functions Automatic switch off in case of over-temperature Monitor Status analysis Automatic temperature control with threshold setting Shock sensor (optional), Back light control (optional) Constant power internal voltages control (optional)	Fan automatic manage/cooling Ambient light control Remote control of all functions Automatic switch off in case of over-temperature Monitor Status analysis Automatic temperature control with threshold setting Shock sensor (optional), Back light control (optional) Constant power internal voltages control (optional)
	Language:	DE, ES, FR, EN, IT, PT	DE, ES, FR, EN, IT, PT
PHYSICAL	**Dimensions:**	817 (W) x 512 (H) x 136 (D)	1050 (W) x 643 (H) x 136 (D)
	Mains voltage:	115/230 VAC ± 15%, 50/60 Hz	115/230 VAC ± 15%, 50/60 Hz
	Power consumption:	150 W	240 W
	Operating conditions:	Storage: -20°C to 65°C (max 85% RH not condensing) Working: 0°C to 50°C (max 85% RH not condensing)	Storage: -20°C to 65°C (max 85% RH not condensing) Working: 0°C to 50°C (max 85% RH not condensing)

QUADRO 46" HD MON/RPC2	QUADRO 46" HIGH BRIGHTNESS MON/RPC3	QUADRO LCD 57" FHD MON/RPC3
46" (117 cm) diagonal 16:9 1366 (H) x 768 (V) pixels 0.74 (H) x 0.24 (V) [mm] 1018 (H) x 572 (V) [mm] 500 cd/m^2 (typical) 1,800: 1 (typical) 178° (in all directions) 16.7 Mil 8 mSec Temperated glass; Laminated antivandalic anti-reflective glass, light transmission > 90%	46" (117 cm) diagonal 16:9 1366 (H) x 768 (V) pixels 0.74 (H) x 0.74 (V) [mm] 1018 (H) x 572 (V) [mm] 1500 cd/m^2 (typical) 3,000: 1 (typical) 178° (in all directions) 16.7 Mil 8 mSec Temperated glass; Laminated antivandalic anti-reflective glass, light transmission > 90%	57" (145 cm) diagonal 16:9 1920 (H) x 1080 (V) pixels 0.21 (H) x 0.65 (V) [mm] 1251 (H) x 703 (V) [mm] 600 cd/m^2 (typical) 2,000: 1 (typical) 178° (in all directions) 16.7 Mil 8 mSec Temperated glass; Laminated antivandalic anti-reflective glass, light transmission > 90%
1 x RCA [CVBS1, input only] 1 x RCA [CVBS2, input only] 1 x mini DIN 4 pin [Y/C, input only] 3 x RCA [YPbPr, input only] 1 x Dsub-15 HD [Analog RGB, input] 1 x DVI-D [Digital RGB, input] 1 X HDMI [Audio e Video con HDCP, input only] 2 x RCA [CVBS1 stereo input] 2 x RCA [CVBS2 / S.Video stereo input] 2 x RCA [Component stereo input] 1 x jack 3.5 mm [PC stereo input] Power stereo output, speakers [clinch] 1 x Dsub-9 female [Input] Local Key Board Remote control 1 x Dsub-15 HD [Analog RGB, output](optional) 1 x DVI-D [Digital RGB, output](optional) 1 x Dsub-9 female [output](optional)	1 x RCA [CVBS1, input only] 1 x RCA [CVBS2, input only] 1 x mini DIN 4 pin [Y/C, input only] 3 x RCA [YPbPr, input only] 1 x Dsub-15 HD [Analog RGB, input] 1 x DVI-D [Digital RGB, input] 1 X HDMI [Audio e Video con HDCP, input only] 2 x RCA [CVBS1 stereo input] 2 x RCA [CVBS2 / S.Video stereo input] 2 x RCA [Component stereo input] 1 x jack 3.5 mm [PC stereo input] Power stereo output, speakers [clinch] 1 x Dsub-9 female [Input] Local Key Board Remote control 1 x Dsub-15 HD [Analog RGB, output](optional) 1 x DVI-D [Digital RGB, output](optional) 1 x Dsub-9 female [output](optional)	1 x RCA [CVBS1, input only] 1 x RCA [CVBS2, input only] 1 x mini DIN 4 pin [Y/C, input only] 3 x RCA [YPbPr, input only] 1 x Dsub-15 HD [Analog RGB, input] 1 x DVI-D [Digital RGB, input] 1 X HDMI [Audio e Video con HDCP, input only] 2 x RCA [CVBS1 stereo input] 2 x RCA [CVBS2 / S.Video stereo input] 2 x RCA [Component stereo input] 1 x jack 3.5 mm [PC stereo input] Power stereo output, speakers [clinch] 1 x Dsub-9 female [Input] Local Key Board Remote control 1 x Dsub-15 HD [Analog RGB, output](optional) 1 x DVI-D [Digital RGB, output](optional) 1 x Dsub-9 female [output](optional)
PAL (BGH/D/I, M, N, 60), NTSC (M, 4.43), SECAM HDMI [supporting CEA-861B specs. HDCP 1.1] 480i/p,576i/p,720p, 1080i / 50-60 Hz, 1080p / 60 Hz CVBS: 1 Vpp / 75 Ohm - nominal (with AGC) Y/C: 1 Vpp / 75 Ohm - nominal (with AGC) Y,Pb,Pr, 1Vpp / 75 ohm nominal VGA ~ WUXGA (1920x1080), NATIVE (1366x768) Automatic frequency detection RGB: 0.7 Vpp / 75 Ohm (RGB), TTL (HV) 1 x DVI-D [Digital RGB, input only] Horizontal: 20 KHz - 82 KHz Vertical: 55 Hz - 90 Hz Audio Input: 0.15 to 1 V Audio Output: 2 x 7W (10% THD) Integrated speakers, 2 x 10W (optional) Remote Control are OSD assisted RS-232 Serial Port Embadded splitter up to 5x5 with bezel compensation (optional) RS-232 pass-through VGA pass-through DVI pass-trough All inputs converted to DVI and retransmitted Commands and controls are available from any of the three user's interfaces	PAL (BGH/D/I, M, N, 60), NTSC (M, 4.43), SECAM HDMI [supporting CEA-861B specs. HDCP 1.1] 480i/p,576i/p,720p, 1080i / 50-60 Hz, 1080p / 60 Hz CVBS: 1 Vpp / 75 Ohm - nominal (with AGC) Y/C: 1 Vpp / 75 Ohm - nominal (with AGC) Y,Pb,Pr, 1Vpp / 75 ohm nominal VGA ~ WUXGA (1920x1080), NATIVE (1366x768) Automatic frequency detection RGB: 0.7 Vpp / 75 Ohm (RGB), TTL (HV) 1 x DVI-D [Digital RGB, input only] Horizontal: 20 KHz - 82 KHz Vertical: 55 Hz - 90 Hz Audio Input: 0.15 to 1 V Audio Output: 2 x 7W (10% THD) Integrated speakers, 2 x 10W (optional) Remote Control are OSD assisted RS-232 Serial Port Embadded splitter up to 5x5 with bezel compensation (optional) RS-232 pass-through VGA pass-through DVI pass-trough All inputs converted to DVI and retransmitted Commands and controls are available from any of the three user's interfaces	PAL (BGH/D/I, M, N, 60), NTSC (M, 4.43), SECAM HDMI [supporting CEA-861B specs. HDCP 1.1] 480i/p,576i/p,720p, 1080i / 50-60 Hz, 1080p / 60 Hz CVBS: 1 Vpp / 75 Ohm - nominal (with AGC) Y/C: 1 Vpp / 75 Ohm - nominal (with AGC) Y,Pb,Pr, 1Vpp / 75 ohm nominal VGA ~ WUXGA (1920x1080), NATIVE (1366x768) Automatic frequency detection RGB: 0.7 Vpp / 75 Ohm (RGB), TTL (HV) 1 x DVI-D [Digital RGB, input only] Horizontal: 20 KHz - 82 KHz Vertical: 55 Hz - 90 Hz Audio Input: 0.15 to 1 V Audio Output: 2 x 7W (10% THD) Integrated speakers, 2 x 10W (optional) Remote Control are OSD assisted RS-232 Serial Port Embadded splitter up to 5x5 with bezel compensation (optional) RS-232 pass-through VGA pass-through DVI pass-trough All inputs converted to DVI and retransmitted Commands and controls are available from any of the three user's interfaces
Preset (4 selections + user) Brightness, Contrast, Color, Sharpness Colour temperature (5 selections + user) Still frame, Source selection 16:9, 14:9, 4:3, Panoramic, Zoom1, Zoom2 16:9, 1:1, 4:3 Self adjustment of picture dimension Free adjustment of picture position Presets (4 selections + user) Volume, Balance, Equalizer (5 bands), Stereo / Dual1 / Dual2, AVC(AutomaticVolumeControl) Stand-by mode Programmable OSD aspect Screensaver (blue screen, pixel shiftl , wiper, gray background) Timer (time, wake-up, sleep) Display address selection DPMS Auto Input Search Fan automatic manage/cooling Ambient light control Remote control of all functions Automatic switch off in case of over-temperature Monitor Status analysis Automatic temperature control with threshold setting Shock sensor (optional), Back light control (optional) Constant power internal voltages control (optional) DE, ES, FR, EN, IT, PT	Preset (4 selections + user) Brightness, Contrast, Color, Sharpness Colour temperature (5 selections + user) Still frame, Source selection 16:9, 14:9, 4:3, Panoramic, Zoom1, Zoom2 16:9, 1:1, 4:3 Self adjustment of picture dimension Free adjustment of picture position Presets (4 selections + user) Volume, Balance, Equalizer (5 bands), Stereo / Dual1 / Dual2, AVC(AutomaticVolumeControl) Stand-by mode Programmable OSD aspect Screensaver (blue screen, pixel shiftl , wiper, gray background) Timer (time, wake-up, sleep) Display address selection DPMS Auto Input Search Fan automatic manage/cooling Ambient light control Remote control of all functions Automatic switch off in case of over-temperature Monitor Status analysis Automatic temperature control with threshold setting Shock sensor (optional), Back light control (optional) Constant power internal voltages control (optional) DE, ES, FR, EN, IT, PT	Preset (4 selections + user) Brightness, Contrast, Color, Sharpness Colour temperature (5 selections + user) Still frame, Source selection 16:9, 14:9, 4:3, Panoramic, Zoom1, Zoom2 16:9, 1:1, 4:3 Self adjustment of picture dimension Free adjustment of picture position Presets (4 selections + user) Volume, Balance, Equalizer (5 bands), Stereo / Dual1 / Dual2, AVC(AutomaticVolumeControl) Stand-by mode Programmable OSD aspect Screensaver (blue screen, pixel shiftl , wiper, gray background) Timer (time, wake-up, sleep) Display address selection DPMS Auto Input Search Fan automatic manage/cooling Ambient light control Remote control of all functions Automatic switch off in case of over-temperature Monitor Status analysis Automatic temperature control with threshold setting Shock sensor (optional), Back light control (optional) Constant power internal voltages control (optional) DE, ES, FR, EN, IT, PT
1136 (W) x 692 (H) x 140 (D) 115/230 VAC ± 15%, 50/60 Hz 270 W Storage: -20°C to 65°C (max 85% RH not condensing) Working: 0°C to 50°C (max 85% RH not condensing)	1136 (W) x 692 (H) x 140 (D) 115/230 VAC ± 15%, 50/60 Hz 600 W Storage: -20°C to 65°C (max 85% RH not condensing) Working: 0°C to 50°C (max 85% RH not condensing)	1375 (W) x 828 (H) x 132 (D) without handle 1375 (W) x 828 (H) x 175 (D) with handle 115/230 VAC ± 15%, 50/60 Hz 430 W Storage: -20°C to 65°C (max 85% RH not condensing) Working: 0°C to 50°C (max 85% RH not condensing)

TECHNICAL DATA

	PRODUCT NAME:	QUADRO LCD 70" FULL HD	QUADRO LCD 82" FULL HD
DISPLAY PANEL	**Screen size:**	70" (178 cm) diagonal	82" (208 cm) diagonal
	Aspect Ratio:	16:9	16:9
	Resolution:	1920 (H) x 1080 (V) pixels	1920 (H) x 1080 (V) pixels
	Pixel pitch:	0.21 (H) x 0.65 (V) [mm]	0.94 (H) x 0.94 (V) [mm]
	Useful screen:	1549 (H) x 871 (V) [mm]	1805 (H) x 1015 (V) [mm]
	Brightness:	600 cd/m^2 (typical)	600 cd/m^2 (typical)
	Contrast ratio:	1,500: 1 (typical)	2,000: 1 (typical)
	Viewing angle:	178° (in all directions)	178° (in all directions)
	Colors:	16.7 Mil	16.7 Mil
	Response time:	8 mSec	8 mSec
	Front protective filter (optional):	Temperated glass; Laminated antivandalic anti-reflective glass, light transmission > 90%	Temperated glass; Laminated antivandalic anti-reflective glass, light transmission > 90%
CONNECTIONS	**Video:**	1 x RCA [CVBS1, input only] 1 x RCA [CVBS2, input only] 1 x mini DIN 4 pin [Y/C, input only] 3 x RCA [YPbPr, input only]	1 x RCA [CVBS1, input only] 1 x RCA [CVBS2, input only] 1 x mini DIN 4 pin [Y/C, input only] 3 x RCA [YPbPr, input only]
	PC:	1 x Dsub-15 HD [Analog RGB, input] 1 x DVI-D [Digital RGB, input]	1 x Dsub-15 HD [Analog RGB, input] 1 x DVI-D [Digital RGB, input]
	HDMI:	1 X HDMI [Audio e Video con HDCP, input only]	1 X HDMI [Audio e Video con HDCP, input only]
	Audio:	2 x RCA [CVBS1 stereo input] 2 x RCA [CVBS2 / S.Video stereo input] 2 x RCA [Component stereo input] 1 x jack 3.5 mm [PC stereo input] Power stereo output, speakers [clinch]	2 x RCA [CVBS1 stereo input] 2 x RCA [CVBS2 / S.Video stereo input] 2 x RCA [Component stereo input] 1 x jack 3.5 mm [PC stereo input] Power stereo output, speakers [clinch]
	Control:	1 x Dsub-9 female [Input] Local Key Board Remote control	1 x Dsub-9 female [Input] Local Key Board Remote control
	Loopthrough unit		
	PC:	1 x Dsub-15 HD [Analog RGB, output](optional) 1 x DVI-D [Digital RGB, output](optional)	1 x Dsub-15 HD [Analog RGB, output](optional) 1 x DVI-D [Digital RGB, output](optional)
	Control:	1 x Dsub-9 female [output](optional)	1 x Dsub-9 female [output](optional)
FEATURES	**Video compatibility:**	PAL (BGH/D/I, M, N, 60), NTSC (M, 4.43), SECAM HDMI [supporting CEA-861B specs. HDCP 1.1]	PAL (BGH/D/I, M, N, 60), NTSC (M, 4.43), SECAM HDMI [supporting CEA-861B specs. HDCP 1.1]
	DTV:	480i/p,576i/p,720p, 1080i / 50-60 Hz, 1080p / 60 Hz	480i/p,576i/p,720p, 1080i / 50-60 Hz, 1080p / 60 Hz
	Video signal level:	CVBS: 1 Vpp / 75 Ohm - nominal (with AGC) Y/C: 1 Vpp / 75 Ohm - nominal (with AGC) Y,Pb,Pr, 1Vpp / 75 ohm nominal	CVBS: 1 Vpp / 75 Ohm - nominal (with AGC) Y/C: 1 Vpp / 75 Ohm - nominal (with AGC) Y,Pb,Pr, 1Vpp / 75 ohm nominal
	PC compatibility:	VGA ~ WUXGA (1920x1080), NATIVE (1366x768) Automatic frequency detection	VGA ~ WUXGA (1920x1080), NATIVE (1366x768) Automatic frequency detection
	PC signal level:	RGB: 0.7 Vpp / 75 Ohm (RGB), TTL (HV) 1 x DVI-D [Digital RGB, input only]	RGB: 0.7 Vpp / 75 Ohm (RGB), TTL (HV) 1 x DVI-D [Digital RGB, input only]
	Frequency range:	Horizontal: 20 KHz - 82 KHz Vertical: 55 Hz - 90 Hz	Horizontal: 20 KHz - 82 KHz Vertical: 55 Hz - 90 Hz
	Audio signal level:	Audio Input: 0.15 to 1 V Audio Output: 2 x 7W (10% THD)	Audio Input: 0.15 to 1 V Audio Output: 2 x 7W (10% THD)
	Speakers:	Integrated speakers, 2 x 10W (optional)	Integrated speakers, 2 x 10W (optional)
	Control interfaces:	Remote Control are OSD assisted RS-232 Serial Port Embadded splitter up to 5x5 with bezel compensation (optional)	Remote Control are OSD assisted RS-232 Serial Port Embadded splitter up to 5x5 with bezel compensation (optional)
	Loopthrough unit:	RS-232 pass-through VGA pass-through DVI pass-trough All inputs converted to DVI and retransmitted Commands and controls are available from any of the three user's interfaces	RS-232 pass-through VGA pass-through DVI pass-trough All inputs converted to DVI and retransmitted Commands and controls are available from any of the three user's interfaces
CONTROLS	**Video:**	Preset (4 selections + user) Brightness, Contrast, Color, Sharpness Colour temperature (5 selections + user) Still frame, Source selection	Preset (4 selections + user) Brightness, Contrast, Color, Sharpness Colour temperature (5 selections + user) Still frame, Source selection
	Size Video:	16:9, 14:9, 4:3, Panoramic, Zoom1, Zoom2	16:9, 14:9, 4:3, Panoramic, Zoom1, Zoom2
	Size Graphics:	16:9, 1:1, 4:3	16:9, 1:1, 4:3
	Geometry:	Self adjustment of picture dimension Free adjustment of picture position	Self adjustment of picture dimension Free adjustment of picture position
	Audio (optional):	Presets (4 selections + user) Volume, Balance, Equalizer (5 bands), Stereo / Dual1 / Dual2, AVC(AutomaticVolumeControl)	Presets (4 selections + user) Volume, Balance, Equalizer (5 bands), Stereo / Dual1 / Dual2, AVC(AutomaticVolumeControl)
	Others:	Stand-by mode Programmable OSD aspect Screensaver (blue screen, pixel shiftl , wiper, gray background) Timer (time, wake-up, sleep) Display address selection DPMS Auto Input Search	Stand-by mode Programmable OSD aspect Screensaver (blue screen, pixel shiftl , wiper, gray background) Timer (time, wake-up, sleep) Display address selection DPMS Auto Input Search
	Diagnostic:	Fan automatic manage/cooling Ambient light control Remote control of all functions Automatic switch off in case of over-temperature Monitor Status analysis Automatic temperature control with threshold setting Shock sensor (optional), Back light control (optional) Constant power internal voltages control (optional)	Fan automatic manage/cooling Ambient light control Remote control of all functions Automatic switch off in case of over-temperature Monitor Status analysis Automatic temperature control with threshold setting Shock sensor (optional), Back light control (optional) Constant power internal voltages control (optional)
	Language:	DE, ES, FR, EN, IT, PT	DE, ES, FR, EN, IT, PT
PHYSICAL	**Dimensions:**	1678 (W) x 1000 (H) x 140 (D) without handle 1678 (W) x 1000 (H) x 183 (D) with handle	1927 (W) x 1137 (H) x 132 (D) without handle 1927 (W) x 1137 (H) x 173 (D) with handle
	Mains voltage:	115/230 VAC ± 15%, 50/60 Hz	115/230 VAC ± 15%, 50/60 Hz
	Power consumption:	800 W	1100 W
	Operating conditions:	Storage: -20°C to 65°C (max 85% RH not condensing) Working: 0°C to 50°C (max 85% RH not condensing)	Storage: -20°C to 65°C (max 85% RH not condensing) Working: 0°C to 50°C (max 85% RH not condensing)

TOUCH SCREEN

OPTIC TOUCH SCREEN

The new **QUADRO Touch Screen** Optical range, provided with the latest passive-border technology patent-pending, radically reduces the quantity and complexity of electronic components is the solution for high performance, cost-effective requirements. Exceptional clarity, low power consumption and improved resistance to environmental conditions are advantages expected by the product's range.
The Optical **Touch Screen Quadro** serie not only provides traditional touch functions such as point, click, drag and drop, but also benefits such as pan, pinch, double-tap and scroll.

FEATURES

- Calibration: once-only, four-points with no drift
- USB plug-and-play: one cable for power and communications
- Orientation: landscape or portrait
- Clear glass: maximum clarity
- Light touch: no pressure required
- Any touch: finger, gloved hand or pointer

WALL

CEILING VERTICAL

CEILING HORIZONTAL

OUTDOOR & INDOOR

RPC3 EMBEDDED RACK PC

RPC3 LCD 32” HD
RPC3 LCD 42” Full HD
RPC2 LCD 46” HD
RPC3 LCD 46” Full HD

Top view

The new QUADRO model in RPC3 configuration, offers innovative technological and structural functionalities, without any aesthetic appearance.

The new QUADRO product’s configuration released in RPC3 version, has been designed to permit to the PC unit, contained in the usual Rack PC drawer, to be easily extracted and inserted without creating any aesthetic back side monitor’s modifying and lack ness.

Compared to the precedent model, the PC unit drawer is now contained and inserted in the internal part of the monitor’s backside without any external overhanging.
The unit can be only extracted from above and the user will not see any visible hardware absence in the backside.

The Rack PC drawer is therefore contained just internally and once removed, the PC unit hardware is already available for upgrading and maintenance without detaching any cover or protection panel.

This new mechanical configuration has been developed to guarantee a better usability and easy maintenance and to avoid the problem of aesthetic absence, once the PC unit was detached, that creates visual and structural problems.

Moreover this new mechanical release provide the QUADRO range to come out in several different versions without any aesthetic appearance, the QUADRO model can be provided of:

- **Rack PC unit**
- **Player hardware for content management**
- **Network hardware**

Integrated RACK PC

NOTES		Integrated PC rack optionally available Module network optionally available Any mechanical frame available upon request
INTEGRATED PC RACK	**Motherboard:**	Support microATX - v1.1 spec. Mini ITX (contact factory for connector layout and height constraints)

OPTIONS

Upon request, for particular video information applications, large, high resolution, liquid crystal screens are available.

Back view

Berlin, Germany - Sheraton Hotel

Sovico (Mi), Italy - Reggiani Illuminazione S.p.A.

VIDEOWALL MODULES

Seam Less/size 42”
Narrow Bezel/size 40”
Super Narrow Bezel/size 46”

Infinite solutions for visual communication

& EASY DISPLAY NETWORK

HANTAREX LCD 40 NB and 46 SNB can have the new '**Network Neptune**' functionality, which is a card/player that allows you to set up a "network" of monitors, called **Clients**, without having to have an integrated PC in each individual monitor in order to manage the programming and content displayed.

(see page 62)

HANTAREX PRODUCES SOPHISTICATED TECHNOLOGY TO CREATE VIDEO WALLS THAT ARE IDEAL FOR ANY APPLICATION.

HANTAREX has developed and engineered sophisticated technology for modular monitors for digital video walls.

This technology fulfils any possible need in the market, using large format video images, messages, publicity and information as the principle tool and fundamental method of communication with the public.

To satisfy all the needs, **HANTAREX** offers a range of products with the maximum brightness, the smallest depths, without borders caused by frame joints and without any reflection from external light sources.

HANTAREX presently offers two different types of modules for video walls:

- PD 42 SL, a module for video walls with plasma monitors without gaps, Seamless
- LCD 40 NB SR/46 SNB, a module for video walls with LCD monitors with narrow gaps, Narrow Bezel

MULTI-DISPLAY CONFIGURATION

FOR

AIRPORTS
RAILWAYS
MALLS
BIG VENUES

LARGE DIGITAL VIDEO WALLS

FOR

- publicity
- entertainment
- public information

IN

- Malls
- Fairs and congress halls
- Airports and train stations
- Subway stations
- Museums
- Public areas

THE PERFECT WAY TO CAPTURE EVERYONE'S ATTENTION.

MILAN, ITALY
GIORGIO ARMANI
LA RINASCENTE CORNER-SHOP

OUTDOOR&INDOOR

SEAM LESS/size 42"
NARROW BEZEL/size 40"
SUPER NARROW BEZEL/size 46"

Shanghai - Versace Flagship shop

HANTAREX offers three different types of modules for video walls:

- **PD 42 SL**, a module for video walls with plasma monitors without gaps, Seamless.
- **LCD 40 NB**, a module for video walls with LCD HD ready monitors with narrow gaps, Narrow Bezel with a 15 mm frame.
- **LCD 46 SNB**, a module for video walls with LCD Full HD monitors with extremely narrow gaps, Super Narrow Bezel with a 3 mm frame. Available from JUNE '09

42"
Plasma Seam Less Modules

SCREEN SIZE	42”
PEAK BRIGHTNESS	1,000 cd/m² PLUS
CONTRAST RATIO	10,000:1
RESOLUTION	853x480
SEAM GAP	2 mm / standard version
	2.5 mm / R version

40"
LCD Narrow Bezel Modules

SCREEN SIZE	40”
PEAK BRIGHTNESS	700 cd/m² PLUS
CONTRAST RATIO	2,000:1
RESOLUTION	1366x768
SEAM GAP	15 mm

46"
LCD Super Narrow Bezel Modules

SCREEN SIZE	46”
PEAK BRIGHTNESS	700 cd/m² PLUS
CONTRAST RATIO	3,000:1
RESOLUTION	1366x768
SEAM GAP	4 mm up/left
	2 mm bottom/right

OutDoor&InDoor

Seam Less/size 42”
Narrow Bezel/size 40”
Super Narrow Bezel/size 46”

Milan, Italy - Seamless Video wall Fiera Milan S.p.A.

42" Plasma Seam Less
Modules

Ultra Slim Depth

HANTAREX has developed a professional product for video wall applications with special 42" plasma monitors, which have virtually no gap between the image of one monitor and the next.

The gap between the modules is only 1.5 mm.

Each PD42 Video Wall Seamless module is made up of a single 42" plasma monitor and made with the latest '4side DZF', 'Dead Zone Free', technology.

This technology fundamentally illuminates the entire screen, including the far edges of the monitor, which means that the image occupies the whole screen; therefore, there is virtually no gap, only 1.5 mm, between the image of one monitor and the next.

This extremely small gap is possible thanks to Seamless technology that takes total advantage of to the monitor's entire surface.

An optional metal structure is available making it possible to disassemble each module simply and intuitively without compromising the performance or position of adjacent monitors.

Roma, Italy – Seamless Video wall Fiumicino International Airport

Roma, Italy – Seamless Video wall Fiumicino International Airport

Main Characteristics

- Internal Image Splitting: image management with an internal splitter for a video wall with up to a 9 x 9 configuration
- Video walls can be configured in different and innovative shapes such as banners, panorama, towers, portrait, 4/3, 16/9, etc.
- Easy installation, access and a possible in-situ replacement for any active component of the monitor, without having to remove the module from the wall.
- Infinitely expandable modules
- Very low power consumption
- Invisible borders
- Very narrow depth (9 cm)

To Summarize

The **PD42 SL** allows you to set up video walls virtually without any borders, with only 1.5 mm of gap between monitors.

PD42 SL allows you to build video walls that can be infinitely expanded, the number of monitors that can be placed one next to another vertically and horizontally is unlimited.

A maximum configuration of 9 horizontal modules by 9 vertical modules can be assembled using only the special internal device software, which is managed by a simple PC.

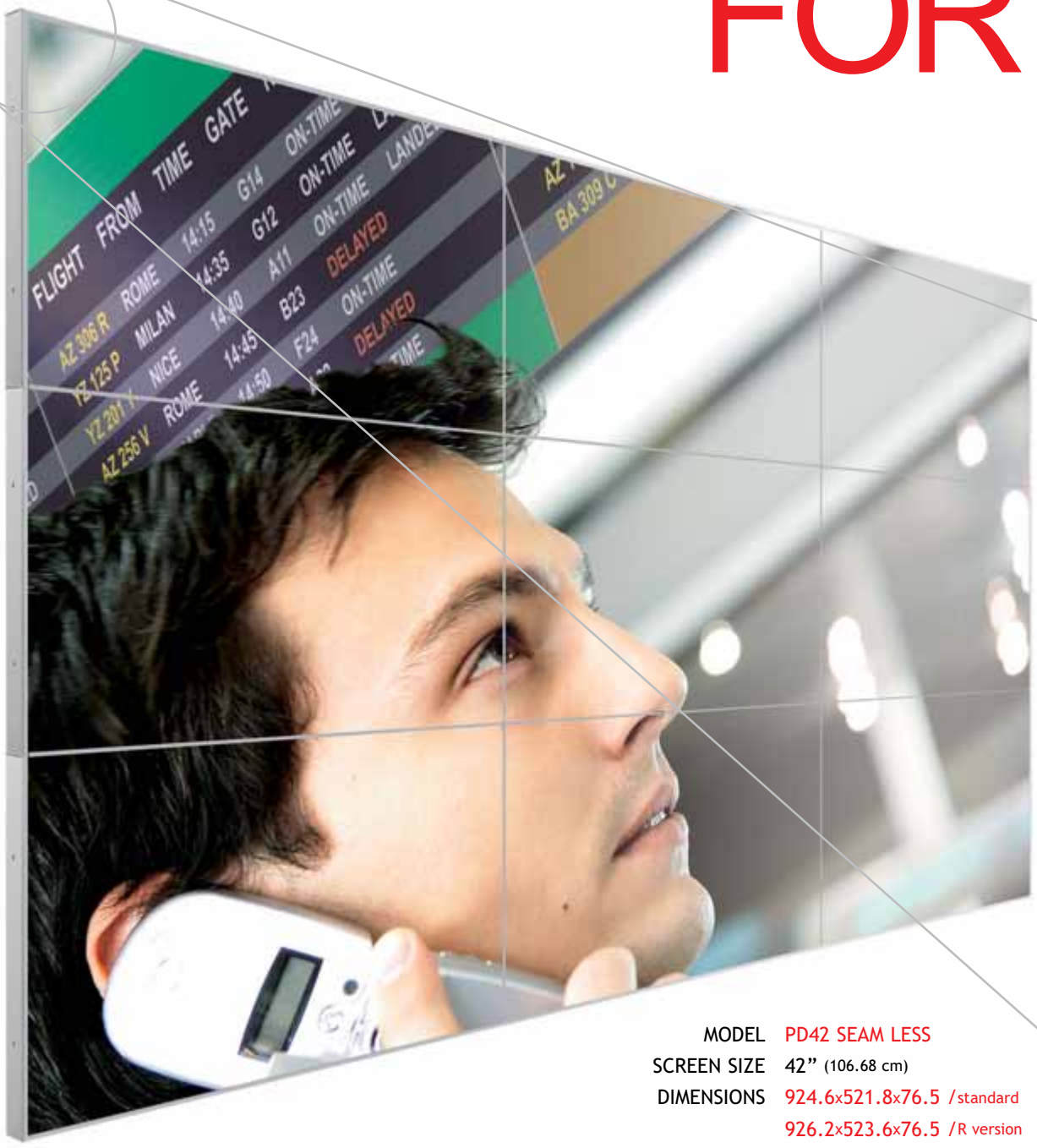
This software allows you to break down and distribute the signals to the monitors.

Digital Signage on Big Display

VIDEOWALL

OutDoor&InDoor

FOR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AZ 306 R ROME 14:15 G14 ON-TIME
YZ 125 P MILAN 14:35 G12 ON-TIME
YZ 201 NICE 14:40 A11 ON-TIME
AZ 256 V ROME 14:45 B23 DELAYED
F24 ON-TIME
DELAYED

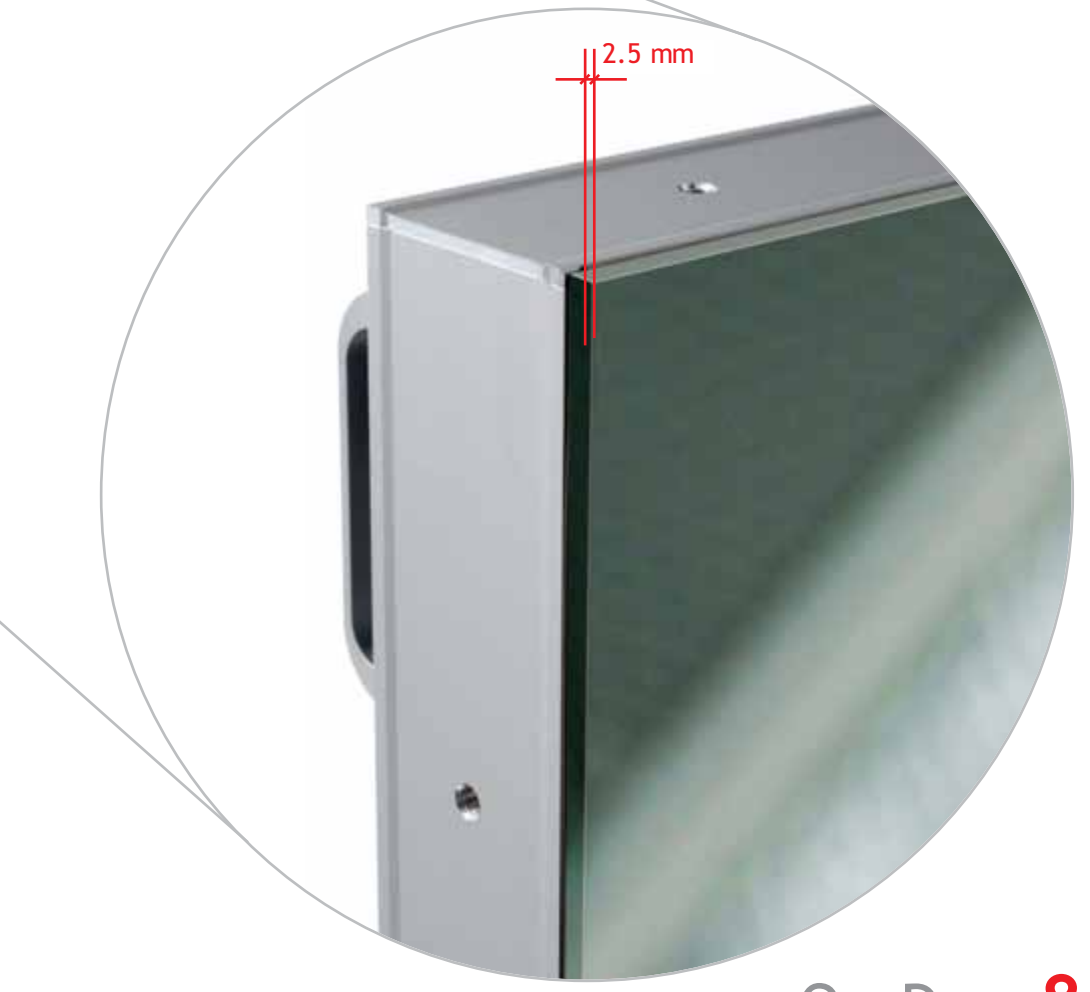
MODEL	PD42 SEAM LESS
SCREEN SIZE	42" (106.68 cm)
DIMENSIONS	924.6x521.8x76.5 /standard
	926.2x523.6x76.5 /R version
DISPLAY AREA	921x518
N°OF PIXELS	853x480
COLORS	16.7 MILLION
PEAK BRIGHTNESS	1,000 cd/m² PLUS
CONTRAST RATIO	10,000:1
WEIGHT	27 KG
SEAM GAP	2 mm /standard version
	2.5 mm /R version
ANGLE OF VIEW	H:178° V:178°

42" Plasma Seam Less
MODULES

AIRPORTS
RAILWAYS
MALLS
BIG VENUES

42" Plasma Seam Less MODULES

VIDEOWALL



OutDoor & InDoor

PD 42” SEAM LESS TECHNICAL DATA

HIGHLIGHTS

- the modules can be infinitely expanded
- the modules consume very little energy
- the borders between the panels are invisible
- the image covers the entire surface of the monitor
- in-situ installation is very simple
- the depth is very small, the design is subtle and modern

	PRODUCT NAME:	PD 42" SEAMLESS III	PD 42" SEAMLESS IIIR
DISPLAY PANEL	**Screen size:**	42" (106,68 cm)	42" (106,68 cm)
	Aspect Ratio:	16:9	16:9
	Resolution:	853 (H) x 480 (V) pixels	853 (H) x 480 (V) pixels
	Pixel pitch:	1.08 [mm]	1.08 [mm]
	Useful screen:	924,6 (H) x 521,8 (V) [mm]	926,2 (H) x 523,6 (V) [mm]
	Brightness:	1000 cd/m2 (typical)	1000 cd/m2 (typical)
	Contrast ratio:	10000: 1 (typical)	10000: 1 (typical)
	Viewing angle:	178° (in all directions)	178° (in all directions)
	Colors:	16.7 Mil	16.7 Mil
	Seam gap:	2 [mm]	2 [mm]
	Surface treatment:	Anti glare Anti reflection (AGAR)	Anti glare Anti reflection (AGAR)
CONNECTIONS	**Video:**	1 x BNC [CVBS, input] 1 x BNC [CVBS, output] 1 x mini DIN 4 pin [Y/C, input]	1 x BNC [CVBS, input] 1 x BNC [CVBS, output] 1 x mini DIN 4 pin [Y/C, input]
	PC:	1 x mini DIN 4 pin [Y/C, output] 1 x Dsub-15 HD [Analog RGB, input] 1 x Dsub-15 HD [Analog RGB, output] 1 x DVI-D [Digital RGB, input] 1 x DVI-D [Digital RGB, output]	1 x mini DIN 4 pin [Y/C, output] 1 x Dsub-15 HD [Analog RGB, input] 1 x Dsub-15 HD [Analog RGB, output] 1 x DVI-D [Digital RGB, input] 1 x DVI-D [Digital RGB, output]
	Component	3 x BNC [Y, Pb, Pr input]	3 x BNC [Y, Pb, Pr input]
	Audio:	3 x BNC [Y, Pb, Pr output] -	3 x BNC [Y, Pb, Pr output] -
	Control:	1 x Dsub-9 female [Input] 1 x Dsub-9 male [output]	1 x Dsub-9 female [Input] 1 x Dsub-9 male [output]
FEATURES	**Video compatibility:**	PAL (BGH/D/I, M, N, 60), NTSC (M, 4.43), SECAM DTV (480i/p - 576i - 720p - 1080i)	PAL (BGH/D/I, M, N, 60), NTSC (M, 4.43), SECAM DTV (480i/p - 576i - 720p - 1080i)
	Video signal level:	CVBS: 1 Vpp / 75 Ohm - nominal (with AGC) Y/C: 1 Vpp / 75 Ohm - nominal (with AGC)	CVBS: 1 Vpp / 75 Ohm - nominal (with AGC) Y/C: 1 Vpp / 75 Ohm - nominal (with AGC)
	PC compatibility:	VGA ~ UXGA (1600x1200), NATIVE (853x488) Automatic frequency detection	VGA ~ UXGA (1600x1200), NATIVE (853x488) Automatic frequency detection
	PC signal level:	RGB: 0.7 Vpp / 75 Ohm (RGB), TTL (HV) 1 x DVI-D [Digital RGB, input only]	RGB: 0.7 Vpp / 75 Ohm (RGB), TTL (HV) 1 x DVI-D [Digital RGB, input only]
	Frequency range:	Horizontal: 31,47 KHz ~ 75,00 KHz Vertical: 56 Hz - 85 Hz	Horizontal: 31,47 KHz ~ 75,00 KHz Vertical: 56 Hz - 85 Hz
	Speakers:	-	-
	Control interfaces:	RS-232 Serial Port	RS-232 Serial Port
	Others:	B.I.C.(Burn-In Compensation) On/Off	B.I.C.(Burn-In Compensation) On/Off
CONTROLS	**Video:**	Brightness, Contrast, Color, Sharpness, Tint Source selection Auto/manual tracking	Brightness, Contrast, Color, Sharpness, Tint Source selection Auto/manual tracking
	Geometry:	Integrated multi-splitter (up to 25 modules) Display address selection (dip switch)	Integrated multi-splitter (up to 25 modules) Display address selection (dip switch)
	Audio:	-	-
	Others:	White calibration Slide contol Integrated test pattern On/Off Timer Auto power on with status memory B.I.C.(Burn-In Compensation) On/Off RS232 protocol	White calibration Slide contol Integrated test pattern On/Off Timer Auto power on with status memory B.I.C.(Burn-In Compensation) On/Off RS232 protocol
PHYSICAL	**Dimensions:**	924,6 (W) x 521,8 (H) x 76,5 (D)	926,2 (W) x 523,6 (H) x 76,5 (D)
	Weight:	27 Kg	27 Kg
	Mains voltage:	100/240 VAC ± 15%, 50/60 Hz	100/240 VAC ± 15%, 50/60 Hz
	Power consumption:	300 W	300 W
	Operating conditions:	Storage: -20°C to 65°C (max 85% RH not condensing) Working: 0°C to 35°C (max 85% RH not condensing)	Storage: -20°C to 65°C (max 85% RH not condensing) Working: 0°C to 35°C (max 85% RH not condensing)
	Class protection:	IP20	IP20
ACCESSORIES		Power cable User's manual Multi - Screen Control software Guide Pin VGA cable RS232 cable	Power cable User's manual Multi - Screen Control software Guide Pin VGA cable RS232 cable

TAKE MAXIMUM ADVANTAGE OF PUBLICITY, THANKS TO THE "CRYSTAL-CLEAR" APPLICATION

The **HANTAREX** PD42 SL combines high resolution with vivid images, ideal for publicity applications.

The advance of technology has made innovative and competitive solutions possible also in the large screen market.

Finally, plasma monitors can be used also for POS, POI, information boards and IR applications.

'DZF' TECHNOLOGY MEANS VIDEO WALLS CAN BE SET UP WITHOUT BORDERS.

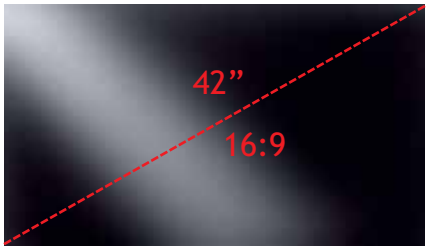
PD42 SL, made with the latest "4 side DZF", Dead Zone Free, technology illuminates the entire surface of the monitor.

The uniformity and continuity of the image on the screens mean that there is almost no gap between adjacent monitors.

Normal monitors have a gap of 60 mm; the gap between our monitors is only 5 mm.

The borderless structure, called 4-sides glass, allows you to take advantage of the complete surface of the monitor, which reduces the gap between adjacent panels to the thickness of the glass.

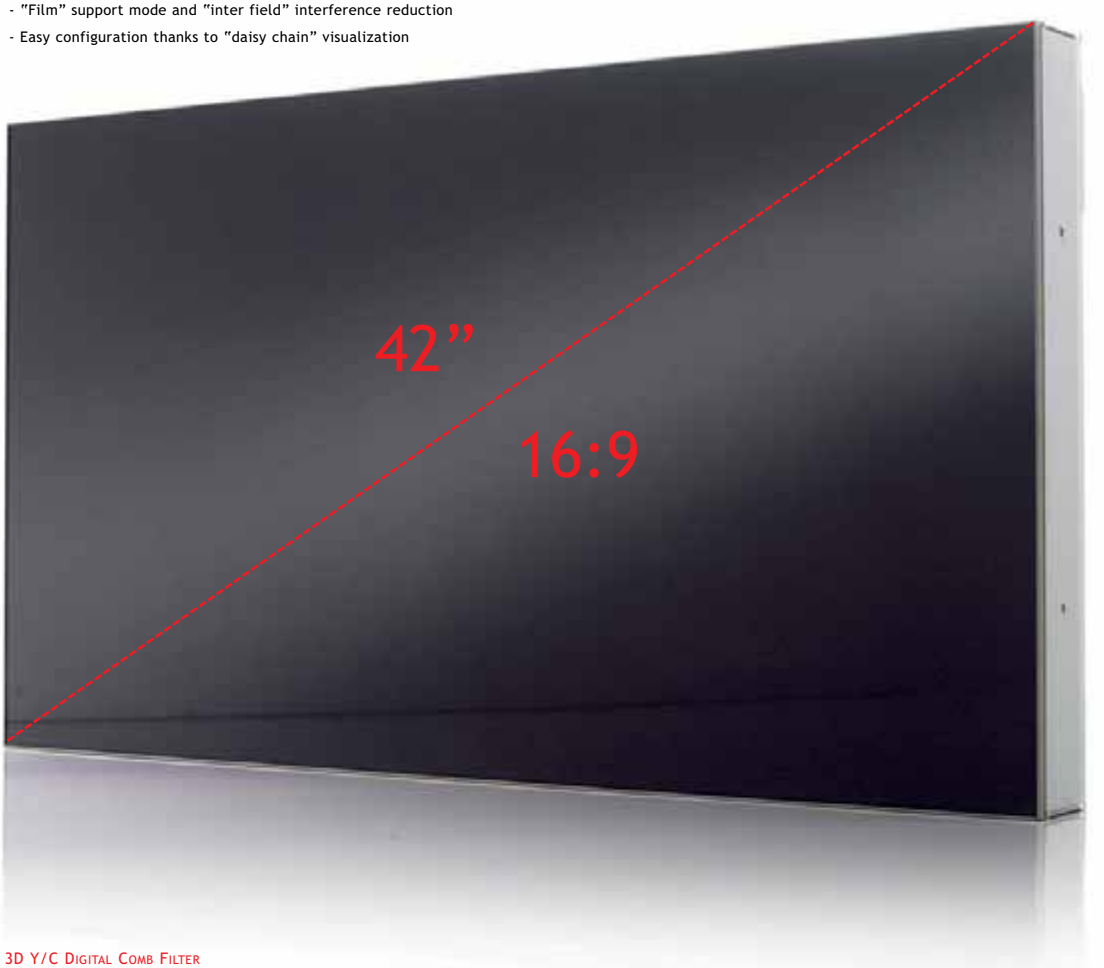
Front



Back

42" Plasma Seam Less MODULES

- Advanced Digital Circuit
- Exclusive internal digital processor (SPLITTER)
- Wide range of in put signals: Video, S-Video, PC, and DVI Component, all with Loop-Through functionality
- Simple and quick control with a RS-232C serial until a resolution of UXGA
- Simple management thanks to the MSCS control system
- Automatic standard selection, NTSC, PAL, SECAM
- Notable image quality
- 3-D comb filter (Y/C separation) for the NTSC standard
- "Motion adaptive 3-D" de-interlacer
- Uniform image quality also on the borders
- "Film" support mode and "inter field" interference reduction
- Easy configuration thanks to "daisy chain" visualization



3D Y/C Digital Comb Filter

The 3D Y/C Digital Comb Filter allows you to compare the image field on the display to accurately separate colors from black and white information.
The filter removes the "dot crawling" effect, drastically reducing the effect horizontally and vertically.

Moving image optimized

The PD42 SL modules are able to display uniform images with very natural effects and moving images with excellent detail made possible by the extreme precision of the "False-Edge Predictor circuit".
This circuit identifies the areas where moving images undergo deformation and automatically reduce the problem.

Dimensional 3D Progressive Scan

This functionality is able to change the de-interlacer signal, used in broadcasts, automatically to the Progressive Scan signal drastically improving the typical "dot matrix" system of plasma monitors.
The 3D Progressive Scan system extracts the interpolate pixels and deduces the highest correlation between the pixel data and a total of four lines of information of the image on three fields, the present field and those before and after.
This function reduces blur, which is common in systems that use plasma monitors.

VIDEO WALLS CAN BECOME VERY LARGE, THANKS TO THE MODULAR SYSTEM, MAINTAINING

HANTAREX'S VERY HIGH IMAGE QUALITY

Mantua, Italy - Municipal Stadium

Roma, Italy - Seamless Video wall Fiera di Roma

OutDoor&InDoor

40" LCD Narrow Bezel
46" LCD Super Narrow Bezel
MODULES

HANTAREX has developed a professional product for video wall applications with 40" TFT LCD monitors and special characteristics such as narrow gaps between adjacent monitors, called Narrow Bezel and special readability for applications in direct sunlight called 'Sun Readability'. Thanks to a brightness of 700 cd/mq and the almost complete lack of reflection of light from external sources, this product is also ideal for permanent applications in public places, which are often subject to direct light whether natural or artificial such as malls, financial centers, banks, stock exchange, congress halls, airports, train stations or temporary applications such as fairs, and indoor events. Large displays with high definition that require clear messages and information, like all **Digital Signage** applications, can take advantage of this monitor's characteristics.

These monitors have a gap of less that 15 mm per side that means the gap between two modules is the smallest imaginable. This gap, even if it is visible, is so small that the entire video wall image is not disturbed.

PRINCIPAL CHARACTERISTICS

- **Internal Image Splitting** image management with an internal splitter for a video wall with up to a 9 x 9 configuration
- **Video walls can be configured** in different and innovative shapes such as banners, panorama, towers, portrait, 4/3, 16/9, etc.
- **Easy installation** access and a possible in-situ replacement for any active component of the monitor, without having to remove the module from the wall
- **Infinitely expandable modules**
- Very low power consumption
- **Invisible borders**
- **Very narrow depth (9 cm)**

TO SUMMARIZE

The sturdy aluminum structure that makes the external body of the module allows easy and quick installation thanks also to the four anchoring hole, and easy maintenance of the video wall itself, guaranteeing durability and resistance.

This module is also IP 30 compliant, which means the resistance parameters conform to those for public use.

All the electronic and functional parameters and software can be controlled with a simple RS232 serial interface and a Loop Through remote control.

The personalization of the software and some of the hardware is possible upon request based on the specifications of the customer.

The SUN-Readability characteristics are only for FID and PID, Flights and Public Information Display, applications, where data must be readable in extremely bright light, viewed at an angle of more than 180° both vertically and horizontally, have a high contrast ration, 1,200:1, and a brightness of 700 cd/mq and a WXGA resolution.

Florence, Italy - Seamless Video wall Luisa Via Roma Show Room

Aosta, Italy -Autostrade S.p.A. control station

The sturdy aluminum structure that makes up the external body of the module allows easy and quick installation, thanks to four anchoring holes, and easy maintenance of the video wall itself.

VIDEOWALL

OUTDOOR&INDOOR

FOR

Lufthansa
KLM
FLIGHT FROM TIME GATE NOTICE DELAY
AZ 306 R ROME 14:15 ON-TIME
YZ 125 P MILAN 14:35 ON-TIME LANDED
YZ 201 Y NICE ON-TIME LANDED
AF 212 Z NAPLE 14:50 ON-TIME
AZ 115 F MILAN 14:55 DELAYED
BA 309 C LONDON 15:00 ON-TIME

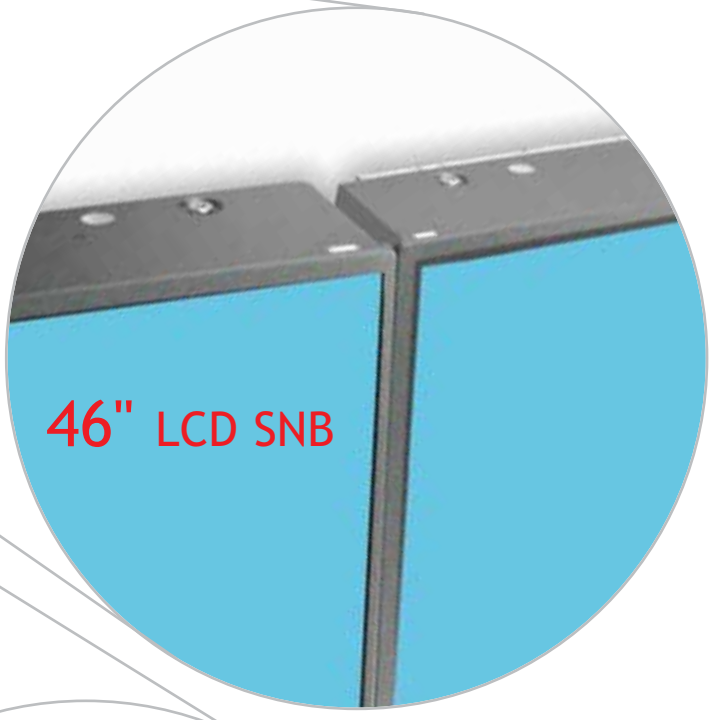
MODEL	LCD 40 NB
SCREEN SIZE	40” (101,50 cm)
DIMENSIONS	916x528x107
ASPECT RATIO	16:9
N°OF PIXELS	1366x768
COLORS	16.7 MILLION
PEAK BRIGHTNESS	700 cd/m² PLUS
CONTRAST RATIO	2,000:1
WEIGHT	21 KG
SEAM GAP	15 mm
VIDEOWALL	MULTI SCREEN

MODEL	LCD 46 SNB
SCREEN SIZE	46” (117 cm)
ASPECT RATIO	16:9
N°OF PIXELS	1366x768
COLORS	16.7 MILLION
PEAK BRIGHTNESS	700 cd/m² PLUS
CONTRAST RATIO	3,000:1
SEAM GAP	4 mm up/left, 2 mm bottom/right
VIDEOWALL	MULTI SCREEN

VIDEOWALL

AIRPORTS
RAILWAYS
MALLS
BIG VENUES

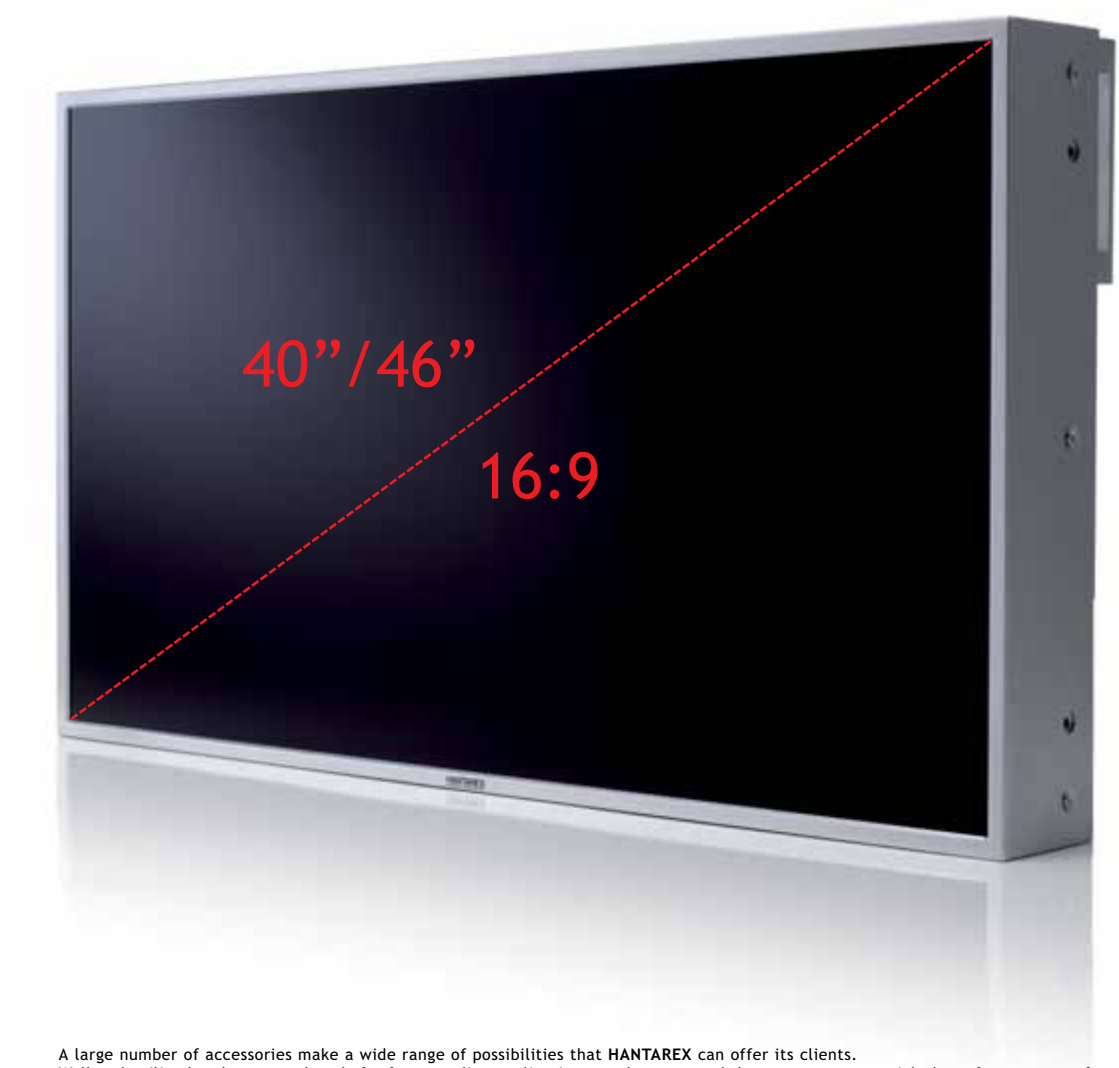
40" LCD Narrow Bezel
46" LCD Super Narrow Bezel
MODULES



OutDoor & InDoor

	PRODUCT NAME	LCD 40" Narrow Bezel	LCD 46" Super Narrow Bezel
DISPLAY PANEL	**Screen size:**	40" (1016 cm)	46" (117 cm)diagonal
	Aspect Ratio:	16:9	16:9
	Resolution:	1366 (H) x 768 (V) pixels	1366 (H) x 768 (V) pixels
	Pixel pitch:	0.648 (H) x 0.216 (V) [mm]	0.745 (H) x 0.745 (V) [mm]
	Useful screen:	885 (H) x 497 (V) [mm]	1018 (H) x 572 (V) [mm]
	Brightness:	700 cd/m² (typical)	700 cd/m² (typical)
	Contrast ratio:	2,000: 1 (typical)	3,000: 1 (typical)
	Viewing angle:	178° (in all directions)	178° (in all directions)
	Colors:	16.7 Mil	16.7 Mil
	Response time:	8 mSec	8 mSec
	Gap:	15 mm	6 mm (4 mm up / left + 2 mm bottom / right)
CONNECTIONS	**Video:**	1 x RCA [CVBS1, input only] 1 x RCA [CVBS2, input only] 1 x mini DIN 4 pin [Y/C, input only] 3 x RCA [YPbPr, input only]	1 x RCA [CVBS1, input only] 1 x RCA [CVBS2, input only] 1 x mini DIN 4 pin [Y/C, input only] 3 x RCA [YPbPr, input only]
	PC:	1 x Dsub-15 HD [Analog RGB, input] 1 x DVI-D [Digital RGB, input]	1 x Dsub-15 HD [Analog RGB, input] 1 x DVI-D [Digital RGB, input]
	HDMI:	1 X HDMI [Audio e Video con HDCP, input only]	1 X HDMI [Audio e Video con HDCP, input only]
	Audio:	2 x RCA [CVBS1 stereo input] 2 x RCA [CVBS2 / S.Video stereo input] 2 x RCA [Component stereo input] 1 x jack 3.5 mm [PC stereo input] Power stereo output, speakers [clinch]	2 x RCA [CVBS1 stereo input] 2 x RCA [CVBS2 / S.Video stereo input] 2 x RCA [Component stereo input] 1 x jack 3.5 mm [PC stereo input] Power stereo output, speakers [clinch]
	Control:	1 x Dsub-9 female [Input] USB for external infrared receiver	1 x Dsub-9 female [Input] USB for external infrared receiver
	Loopthrough unit		
	PC:	1 x Dsub-15 HD [Analog RGB, output] 1 x DVI-D [Digital RGB, output]	1 x Dsub-15 HD [Analog RGB, output] 1 x DVI-D [Digital RGB, output]
	Control:	1 x Dsub-9 female [output]	1 x Dsub-9 female [output]
FEATURES	**Video compatibility:**	PAL (BGH/D/I, M, N, 60), NTSC (M, 4.43), SECAM HDMI [supporting CEA-861B specs. HDCP 1.1]	PAL (BGH/D/I, M, N, 60), NTSC (M, 4.43), SECAM HDMI [supporting CEA-861B specs. HDCP 1.1]
	DTV:	480i/p,576i/p,720p, 1080i / 50-60 Hz, 1080p / 60 Hz	480i/p,576i/p,720p, 1080i / 50-60 Hz, 1080p / 60 Hz
	Video signal level:	CVBS: 1 Vpp / 75 Ohm - nominal (with AGC) Y/C: 1 Vpp / 75 Ohm - nominal (with AGC) Y,Pb,Pr, 1Vpp / 75 ohm nominal	CVBS: 1 Vpp / 75 Ohm - nominal (with AGC) Y/C: 1 Vpp / 75 Ohm - nominal (with AGC) Y,Pb,Pr, 1Vpp / 75 ohm nominal
	PC compatibility:	VGA ~ WUXGA (1920x1080), NATIVE (1366x768) Automatic frequency detection	VGA ~ WUXGA (1920x1080), NATIVE (1366x768) Automatic frequency detection
	PC signal level:	RGB: 0.7 Vpp / 75 Ohm (RGB), TTL (HV) 1 x DVI-D [Digital RGB, input only]	RGB: 0.7 Vpp / 75 Ohm (RGB), TTL (HV) 1 x DVI-D [Digital RGB, input only]
	Frequency range:	Horizontal: 20 KHz - 82 KHz Vertical: 55 Hz - 90 Hz	Horizontal: 20 KHz - 82 KHz Vertical: 55 Hz - 90 Hz
	Audio signal level:	Audio Input: 0.15 to 1 V Audio Output: 2 x 7W (10% THD)	Audio Input: 0.15 to 1 V Audio Output: 2 x 7W (10% THD)
	Splitter		
	Control interfaces:	Embedded splitter up to 5x5 with bezel compensation Infrared Remote Control (external) RS-232 Serial Port Commands and controls are available from any of user's interfaces Remote Control are OSD assisted	Embedded splitter up to 5x5 with bezel compensation Infrared Remote Control (external) RS-232 Serial Port Commands and controls are available from any of user's interfaces Remote Control are OSD assisted
	Loopthrough unit	RS-232 pass-through VGA pass-through All inputs converted to DVI and retransmitted	RS-232 pass-through VGA pass-through All inputs converted to DVI and retransmitted
CONTROLS	**Video:**	Mode (4 selections + user) Brightness, Contrast, Color, Sharpness Colour temperature (5 selections + user) Still frame Source selection	Mode (4 selections + user) Brightness, Contrast, Color, Sharpness Colour temperature (5 selections + user) Still frame Source selection
	Size Video	(16:9, 14:9, 4:3, Panoramic, Zoom1, Zoom2)	(16:9, 14:9, 4:3, Panoramic, Zoom1, Zoom2)
	Size Graphics	(16:9, 1:1, 4:3)	(16:9, 1:1, 4:3)
	Geometry:	Self adjustment of picture dimension Free adjustment of picture position	Self adjustment of picture dimension Free adjustment of picture position
	Audio:	Mode (4 selections + user) Volume, Balance Equalizer (5 bands) Stereo / Dual1 / Dual2 AutomaticVolumeControl	Mode (4 selections + user) Volume, Balance Equalizer (5 bands) Stereo / Dual1 / Dual2 AutomaticVolumeControl
	Others:	Stand-by mode Status Indication Programmable OSD aspect Screensaver (blue screen, pixel shiftl , wiper, gray background) Fan automatic manage/cooling Resize/Shift Multi Screen Function (up to 5x5) External IR sensor with USB connection Timer (time, wake-up, sleep) Display address selection DPMS Auto Input Search	Stand-by mode Status Indication Programmable OSD aspect Screensaver (blue screen, pixel shiftl , wiper, gray background) Fan automatic manage/cooling Resize/Shift Multi Screen Function (up to 5x5) External IR sensor with USB connection Timer (time, wake-up, sleep) Display address selection DPMS Auto Input Search
	O.S.D. Language :	D, E, F, GB, I, P	D, E, F, GB, I, P
PHYSICAL	**Dimensions:**	916 (W) x 528(H) x 107 (D)	TBD
	Weight:	21 Kg (without base)	TBD
	Mains voltage:	115/230 VAC ± 15%, 50/60 Hz	115/230 VAC ± 15%, 50/60 Hz
	Power consumption:	200 W	TBD
	Storage conditions:	Storage: -20°C to 65°C (max 85% RH not condensing)	Storage: -20°C to 65°C (max 85% RH not condensing)
	Operating conditions:	Working: 0°C to 50°C (max 85% RH not condensing)	Working: 0°C to 50°C (max 85% RH not condensing)
	Class protection:	IP30	IP30
ACCESSORIES		Power cable DVI-D cable RS 232 cable Remote control with batteries External Infrared Sensor with USB connection User manual	Power cable DVI-D cable RS 232 cable Remote control with batteries External Infrared Sensor with USB connection User manual

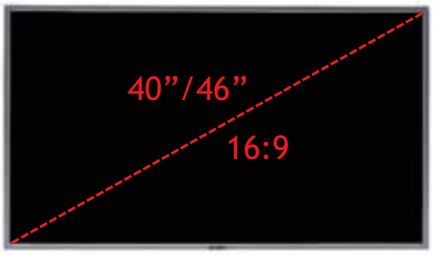
40" LCD Narrow Bezel
46" LCD Super Narrow Bezel
MODULES



A large number of accessories make a wide range of possibilities that **HANTAREX** can offer its clients.
Wall and ceiling brackets or pedestals for free standing applications resolve any need that our customers might have for any type of application and any level of security. If compared to traditional ultra-thin plasma and/or LCD monitors, the LCD 40 NB monitor reduces the gap between adjacent monitors by 1/3.

40"/46” LCD MODULAR MONITORS WITH EXCELLENT BRIGHTNESS AND RESOLUTION FOR VIDEO WALLS WITHOUT REFLECTION

Front



Back

Sovico (Mi), Italy - Reggiani Illuminazione S.p.A.

		Network
CONNECTIONS		RJ45 (LAN 10/100) Wireless LAN (optional) 2 x USB (contents storage) 1 x IDE (internal HDD 2.5" 80GB) 1 x IDE (internal Flash Disk up to 16 GB optional)
FEATURES	**System setup:**	Server software Contents server (FTP server) Player (Client)
	Video:	HDMI (1080p)
	Audio:	2 channel digital encoded (via HDMI)
	Video decoder:	MPEG 1/2/4, DIVX, XVID, WMV9, H.264, VC-1
	Audio decoder:	MP3, WMA, WAV
	Image decoder:	JPEG, BMP, GIF, PNG
		Time synchronisation with server Local HDD or FlashDisk storage Instant message Upgradable firmware (both locally and via network) File browsing on local storage
CONTROLS	**Video:**	HDMI resolution Brightness, contrast
	Audio:	Volume
	Setup:	Time settings Local playback
	IP based controls	Playlist scheduling Message scheduling Contents management Power on/off, reset Volume Firmware upgrade Playlist logging

The **Network Neptune card**, available with **Totem** and Video wall monitors upon request, allows you to set up a 'network' of monitors, called Clients, without having to have a PC for each single monitor/client to manage content ** to display.

The **Network Neptune card** works as a solid memory, called SSD, Solid State Drive. It is a "mass memory" that replaces a HDD, Hard Disk Drive, which is the heart of standard computers and media players/recorders
This card acts like a media player, but with more characteristics and performance, it is easier, safer, without noise and more system stability.

The card allows you to build a network of monitors/Clients that communicate with a TCP IP communication protocol.
Each monitor/Client is connected to an FTP server dedicated exclusively to "containing" various multimedia files.
An additional server for managing and scheduling the content to be displayed, which is also connected to each monitor/Client, works with simple management software that creates play lists of content with the relative scheduling.

Therefore, the system's architecture is very simple and stable.
a) Content is loaded from the Scheduling Server to the FTP server, which is apart from the network. With the management software loaded on the Scheduling Server, the content is scheduled in play lists and sent to each individual monitor in the network.
b) Thanks to the **Network Neptune card**, each monitor/Client is able to acquire the play lists of content and download it from the FTP server in the 'pull/downloading' mode
c) The single monitors/Clients can simply display the content in 'store&play' mode, making the entire system and content programming more stable and reliable.

Another fundamental characteristic of the **Network Neptune card** is the possibility to display a banner at the foot to the monitor that contains messages and announcements. This function is also managed through the Scheduling Server, which make it easy to verify some of the functionalities of each monitor/Client such as On/Off/Stand-by status, progression of the play list, upgrading firmware and volume control.

** The **Network Neptune card** is able to manage various Clients in the network and various types of multimedia content, such as video clips, images and audio files, similar or different, decoding them with different video compressions and HD.

Digital Signage

Easy Display Network

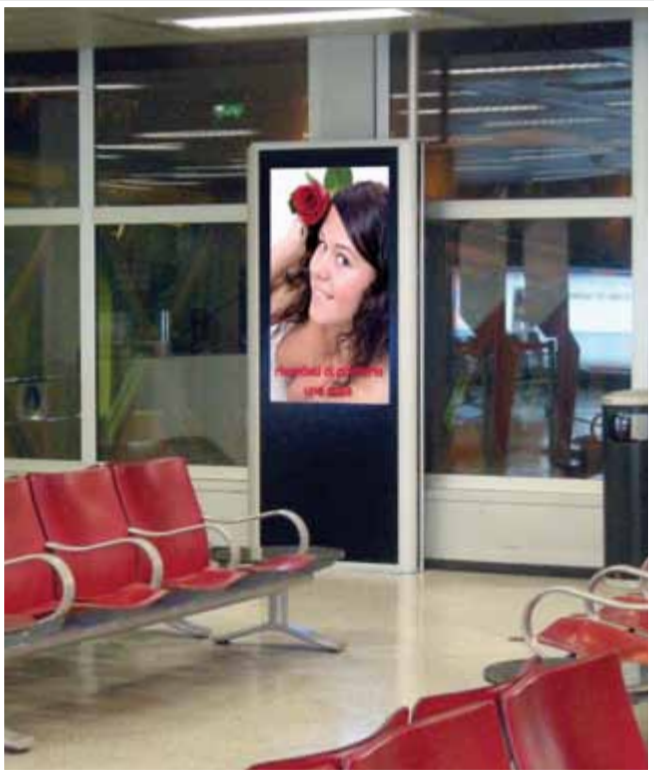
MULTIMEDIA TOTEM

MONITOR

VIDEOWALL

All of HANTAREX's products can have the Network Neptune card upon request, which allows you to set up a "network" of monitors, called Clients, without having to have a PC for each single monitor/Client to manage content to display.

www.hantarex.eu



SAMBERS
I T A L I A

Headquarter:
via Friuli 10/D
20046
Biassono (Mi)
tel. +39.039.2224.1
fax +39.039.2224.200
www.hantarex.it
info@hantarex.it

UNI EN ISO 9001:2000

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